

SERVICE MANUAL

AE-5A CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-28FQ75A	RM-893	ET	SCC-Q45B-A	KV-32FQ75A	RM-893	ET	SCC-Q45C-A
KV-28FQ75B	RM-893	FR	SCC-Q44B-A	KV-32FQ75B	RM-893	FR	SCC-Q44C-A
KV-28FQ75D	RM-893	AEP	SCC-Q41E-A	KV-32FQ75D	RM-893	AEP	SCC-Q41F-A
KV-28FQ75E	RM-893	ESP	SCC-Q43C-A	KV-32FQ75E	RM-893	ESP	SCC-Q43B-A
KV-28FQ75U	RM-893	UK	SCC-Q46B-A	KV-32FQ75U	RM-893	UK	SCC-Q46A-A

FD Trinitron



TRINITRON[®] COLOR TV
SONY[®]

TABLE OF CONTENTS

<i>Section</i>	<i>Title</i>	<i>Page</i>	<i>Section</i>	<i>Title</i>	<i>Page</i>
	Specifications	3	3. SET-UP ADJUSTMENTS		
	Connectors	5	3-1. Beam Landing	14	
	Self Diagnostic Software	6	3-2. Convergence	15	
			3-3. Focus Adjustment	17	
			3-4. Screen (G2), White Balance	17	
1. GENERAL			4. CIRCUIT ADJUSTMENTS		
	Switching On the TV and		4-1. Electrical Adjustments	18	
	Automatically Tuning	7	4-2. Test Mode 2	20	
	Introducing the Menu System	8			
	Teletext	10	5. DIAGRAMS		
	Connecting Optional Equipment.....	10	5-1. Circuit Board Location	22	
	Using Optional Equipment	10	5-2. Block Diagrams	23	
	Specifications	11	5-3. Schematic Diagrams and		
	Troubleshooting	11	Printed Wiring Boards	22	
			* C Board	27	
			* A Board	29	
2. DISASSEMBLY			5-4. Semiconductors	37	
2-1. Rear Cover Removal	12		5-5. IC Blocks	39	
2-2. Chassis Removal	12				
2-3. Service Position	12		6. EXPLODED VIEWS		
2-4. Wire Dressing	12		6-1. Chassis	40	
2-5. Picture Tube Removal	13		6-2. Picture Tube	41	
			7. ELECTRICAL PARTS LIST		
				42	

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE Δ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÉCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.


ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
Italian	B/G/H, D/K	GERMAN Stereo	B/G/H VHF : E2-E12 UHF : E21-E69 DK : R01-R12, R21-R69, S01-S05	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H, D/K,L,I	GERMAN/NICAM Stereo	B/G/H VHF : E2-E12 UHF : E21-E69 DK : R01-R12, R21-R69, S01-S05	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
AEP	B/G/H, D/K	GERMAN Stereo	B/G/H VHF : E2-E12 UHF : E21-E69 DK : R01-R12, R21-R69, S01-S05	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H, D/K	GERMAN /NICAM Stereo	B/G/H VHF : E2-E12 UHF : E21-E69 DK : R01-R12, R21-R69, S01-S05	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
UK	I	NICAM Stereo	B/G/H VHF : E2-E12 UHF : E21-E69 DK : R01-R12, R21-R69, S01-S05	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

Model	KV-28FQ75A	KV-28FQ75B	KV-28FQ75D	KV-28FQ75E	KV-28FQ75U
Power Consumption	128W	152W	152W	152W	152W
Model	KV-32FQ75A	KV-32FQ75B	KV-32FQ75D	KV-32FQ75E	KV-32FQ75U
Power Consumption	138W	160W	160W	160W	160W

Picture Tube	FD Trinitron Wide Approx 72 cm (28 inches) (Approx 67cm picture measured diagonally) Approx 82 cm (32 inches) (Approx 77cm picture measured diagonally) 110 degree deflection	Sound output Subwoofer	Right and Left speaker 2x20W (Music Power) 2x10W (RMS) 1x30W (Music Power) 1x15W (RMS)
Input/Output Terminals [REAR]		Power Requirements	220 - 240V
1: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Dimensions	28" Approx 788x571x563mm 32" Approx 886x620x592mm
2: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video. Outputs of TV Video and Audio signals. (selectable)	Weight	28" Approx 46.0kg 32" Approx 74.0kg
3: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video. Outputs for Video and Audio signals (monitor out)	Supplied Accessories	RM-893 Remote Commander (1) IEC designated R6 battery (2)
RCA Connectors	Variable output for Audio Signals	Other Features	NexTView, Digital Comb Filter, Noise Reduction, DRC 100Hz Picture, DRC 50Hz Picture, Graphic Equaliser
Input/Output Terminals [FRONT]		Remote control system	Infrared control
Headphone jack	stereo mini jack	Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
Audio inputs	phono jacks	Dimensions	Approx 210x55x23mm (w/h/d)
Video inputs	phono jacks	Weight	Approx 110g (not including battery)
S Video input	4 pin DIN		
Design and specifications are subject to change without notice.			

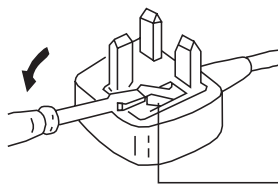
Model Name Item	KV-28FQ75A KV-32FQ75A	KV-28FQ75B KV-32FQ75B	KV-28FQ75D KV-32FQ75D	KV-28FQ75E KV-32FQ75E	KV-28FQ75U KV-32FQ75U
Pal Comb	ON	ON	ON	ON	ON
PIP	OFF	OFF	OFF	OFF	OFF
RGB Priority	ON	ON	ON	ON	ON
Woofer Box	ON	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON
Scart 3	ON	ON	ON	ON	ON
Front in (4)	ON	ON	ON	ON	ON
Projector	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	ON
Norm D/K	ON	ON	ON	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF
Teletext	ON	ON	ON	ON	ON
Nicam Stereo	OFF	ON	OFF	ON	ON

WARNING (UK Models only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **13 AMP** rating. Should the fuse need to be replaced, use a **13 AMP FUSE** approved by ASTA to **BS 1362**, ie one that carries the  mark.

IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET.

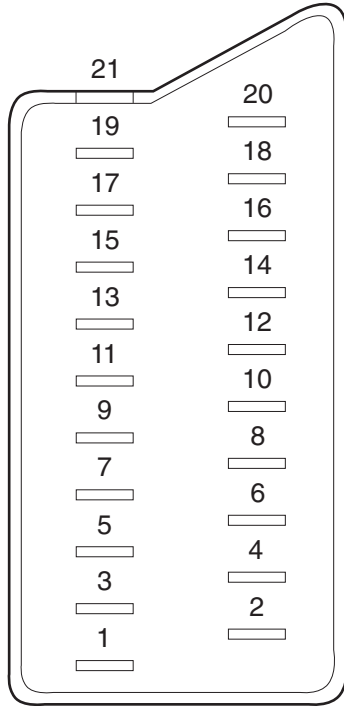
When an alternative type of plug is used, it should be fitted with a **13 AMP FUSE**, otherwise the circuit should be protected by a **13 AMP FUSE** at the distribution board.



How to replace the fuse.
Open the fuse compartment with a screwdriver blade and replace the fuse.

FUSE

21 pin connector



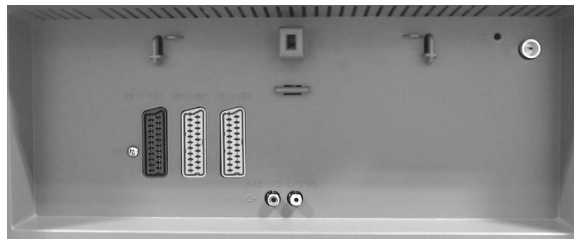
Pin No	1	2	4	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
2	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedance : More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedance : More than 10kohm*
7	○	●	●	Blue input	0.7 +/- 3dB, 75 ohms positive
8	○	○	○	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedance : More than 10K ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
	-	○	○	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedance : 75 ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	○	-	-	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	-	○	○	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	○	○	○	Common ground (plug, shield)	

○ Connected



● Not Connected (open) * at 20Hz - 20kHz

Rear Connection Panel



S Video socket pin configuration		
Pin No	Signal	Signal Level
1	Ground	-
2	Ground	-
3	Y (S signal) input	1V +/- 3dB 75ohm, positive Sync. 0.3V -3 +10dB
4	C (S signal) input	0.3V +/- 3dB 75ohm, positive Sync.



S-Video socket

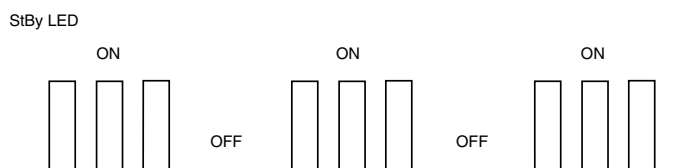
AE-5A SELF DIAGNOSTIC SOFTWARE

The identification of errors within the AE-5A chassis is triggered in one of two ways :- 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method.

Diagnostic Item Description	No of times Standby LED Flashes	Probable cause Location	Detected Symptoms
Power does not turn on	Does not light	Power cord is not plugged in. Fuse is open circuit.	Power does not come on No power is supplied to the TV AC power supply is faulty
+B Overcurrent (OCP)	2 times	H.OUT (Q6803/6804) is shorted. (D Board) Linearity FET (Q6806) is shorted. (D Board) IC6604 Power IC is shorted. (D Board)	Power does not come on Load on power line has shorted
Vertical Deflection stopped	4 times	+15V is not supplied R6835 open (D Board) -15V is not supplied R6834 open (D Board) IC6700 is shorted (D Board)	Vertical deflection pulse has stopped Power line has shorted

Error Message	LED Code
No error	00
Reserved	01
OCP (Over Current Protection)	02
OVP (Over Voltage Protection)	03
Vertical Protection	04
Unstable AKB (check starts after 30's, enable TT61 disable TT62)	05
Horizontal Protection	06
Speaker Protection	07
I2C bus 0 error	08
M-B Tele-Text-Decoder	09
M-B ST24C32, NVM	10
J-B TDA9320, Main Colour Decoder	11
B1/B2-B Feature Box	12
B1-B D/A-Converter	13
E-B Backend	14
J-B MSP3410D, Sound Processor	15
J-B CXD2057, Auto Wide	16
External RAM	17

Flash Timing Example : e.g. error number 3



Error Detection Monitor

Device acknowledge is used to check IIC errors. Device acknowledge is checked by sending an IIC start sequence during CRT power on. Each device is checked three times, if there is no acknowledge after each attempt, it will be regarded as an error. There are three steps to check for errors.

1. IIC line 0
If all devices except the NVM have errors, IIC line 0 error is displayed.
2. Board check
If all devices mounted on one board have errors, board error is displayed.
3. Each device check
If IIC line error and board error are not detected then the device with the error is displayed.

The detected errors can be displayed as follows :

1. Error Monitor Menu.
2. Error Reader.

1. Error Monitor Menu

ERROR MONITOR

1. IGNORE ERRORS OFF ON OFF

Operating Time : 000075 h 15 min

Stored Errors :

1. D1 - B CXA1875 or MB88141

2. No Error Occured

3. No Error Occured

4. No Error Occured

5. No Error Occured

Current Error :

Start Error Sequence

Last menu ◀ Enter Item ▶

2. Error Reader Display

The error reader display is connected to the service connector to read actual error codes. The part number for the error reader display is S-188-900-10. Once an error has been detected it will then be displayed on the two digit error reader. The errors displayed refer to the following table.

Error Code	Error Message
000h	No error occurred
001h	Bus error, IIC0
002h	Bus error, IIC1
100h	A-Board
101h	A-B CXA1875, Port Expander
102h	A-B TU1326, Main Tuner
103h	A-B TU1350, Sub Tuner
200h	B1-Board
201h	B1-B P83C654, Feature Box B1-B. SDA9280, D/A Convertor
202h	B1-B P83C654, Feature Box B1-B. SDA9280, D/A Convertor
300h	B2-Board
301h	B2-B. SAA4977, BESIC
302h	B2-B. SAA495X, Field Memory
400h	B3-Board
401h	B3-B. MID-X
402h	B3-B. Panorama
403h	B3-B. DRC
404h	BK-B. Picture Booster
500h	D1-Board
501h	D1-B CXA8070, Dynamic Convertor
502h	D1-B CXA1875, Port Expander
600h	E-Board
601h	E-B CXD2100, Backend
700h	J-Board
701h	J-B CXD2057, Auto Wide
702h	J-B SDA9288, PIP
703h	J-B TDA9320, Sub Colour Decoder
704h	J-B TDA9320, Main Colour Decoder
705h	J-B CXA1875, Sub-Sound
706h	J-B TDA7309, HP-Amplifier
707h	J-B TEA6422DT, Audio Switch
708h	J-B MSP3410D, Sound Processor
709h	J-B TC9337F, Sound DSP
70Ah	J-B CXA21X69, AV Switch
800h	M-Board
801h	M-B ST24C32, NVM

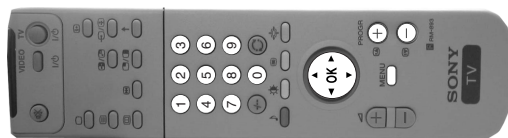
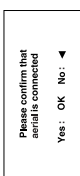
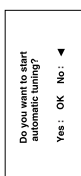
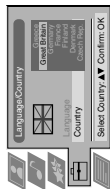
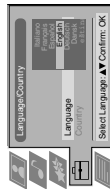
The operating instructions mentioned here are partial abstracts from the 'Operating Instruction Manual'. The page numbers of the 'Operating Instruction Manual' remain as in the manual.

Installation

6. Tuning your TV

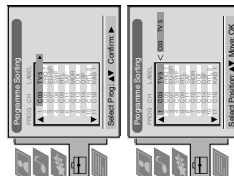
Before you tune your TV, you will be asked to set your language and country.

1. The Language/Country menu appears on the TV screen with the word 'English' highlighted.
2. Press the **▲** or **▼** buttons on the remote control to select your chosen language then press the OK button to confirm. The country menu appears on screen with the word 'OFF' highlighted. Select 'OFF' if you do not want your channels stored in a given channel sequence starting from programme position 1.
3. Press **▲** or **▼** to select the country in which you wish to operate the TV then press the OK button to confirm your choice.
4. The 'autotune' menu appears on the TV screen in your selected language. Press the OK button to confirm.



5. Ensure the aerial is connected as instructed, then press the OK button to confirm. The TV starts to automatically search and store all available channels for you. This may take a few minutes - please be patient and do not press any buttons.

6. Once the TV has tuned all available channels the 'Programme Sorting' menu appears on the TV screen enabling you to change the order of the channels on your TV. If you wish to change the channel order, press the **▲** or **▼** buttons to select the channel you want to move, then press **►**. Press the **▲** or **▼** buttons to select the new programme number position for your selected channel then press the OK button to confirm. The selected channel now moves to its new programme position and the other channels move accordingly. Repeat this procedure if you wish to sort the order of other channels on your TV.



7. Press the MENU button to remove the menu from the TV screen.

8. Press the PROG+/- or the numbered buttons to view the TV channels.

Note: If you would like to stop the autotune process at any stage, press the OK button.

7. Finding your video channel

If you have connected a VCR to your TV, you now need to find your video channel.

1. Press the PROG+/- buttons on the TV remote control until your video picture appears on the TV screen.

Note: If you wish to move your video channel to a different programme position, refer to the 'Re-arranging TV channels' section of this instruction manual.

Operation

NexTVView*

* depending on availability of service

NexTVView is an on-screen electronic programme guide, providing you with programme information for different broadcasters.

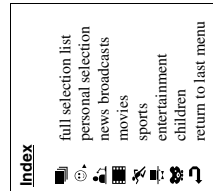
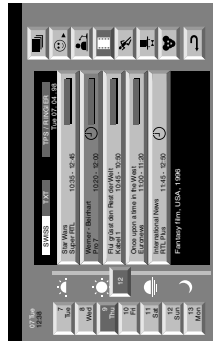
Selecting your NexTVView provider

Your TV set automatically selects the best NexTVView provider for you. This provider is available about 30 minutes after the channel tuning. You can however change this selection of provider if you wish.

1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the **▲** or **▼** buttons to select the symbol on the menu screen then press **►** to enter the 'Set Up' menu.
3. Press **▲** or **▼** to highlight 'Select NexTVView' then press **►** to confirm. A list is displayed containing all available NexTVView providers.
4. Press **▲** or **▼** to select the desired NexTVView provider then press the OK button to store.
5. Press the MENU button to remove the menu from the TV screen.

Displaying NexTVView

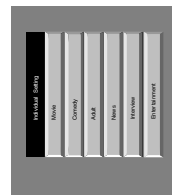
1. Press the button repeatedly on the remote control to switch NexTVView on and off.
- * In some cases, you may also need to press the **◀** button to display the Sony electronic programme guide.
2. Press the **▲**, **▼**, **◀** or **▶** buttons to move the cursor around the screen.
3. Press the OK button to confirm a selection.
 - a. If you press the OK button in the date, time or icon (themes) columns, you change the programme list according to the selection.
 - b. If you press the OK button in the programme list, you directly display the channel if the broadcast is currently running, or, you display the 'Long Info' menu if the broadcast is running at some future time.



Using the 'Individual Setting' menu

You can make a personal list of the types of programmes you wish to view on the programme guide.

1. Press the **▲** or **▼** buttons to select the icon then press **►** to display the 'Individual Setting' menu.
2. Press **▲** or **▼** to select your chosen item on the screen then press the OK button to confirm your choice.
3. Repeat step 2 for all the items you wish to have in your list.
4. When you have finished the list, press **►** to select on the menu screen.
5. Press the OK button to return to the previous menu.
6. Press the **▲** or **▼** buttons to select the icon then press the OK button again to activate your 'Individual Setting' filter.




SECTION 1 GENERAL

Using the 'Long Info' menu


With this 'Long Info' menu screen, you can set timers or record selected programmes.

1. Press **▲** or **▼** to select a future programme in the programme list column.
2. Press the OK button to display the 'Long Info' menu on the TV screen.

To set the timer

Press the **◀** or **▶** buttons to highlight the  icon then press the OK button repeatedly to 'set the timer' or 'cancel the timer'. If you choose to set the timer, the programme is marked with a clock symbol and a message appears on the screen shortly before the programme is due to start asking whether you wish to still view this programme.

To view the timer table

Press the **◀** or **▶** buttons to highlight the  icon then press the OK button repeatedly to switch on/off the timer table. This table shows the programmes on which you have already set a timer. (You can set a timer on up to 5 programmes).



To record programmes*

* (only with Smartlink VCRs)

1. Connect your Smartlink VCR.
2. Press **◀** or **▶** to select  then press the OK button to download the information to your VCR.
3. To set up the VCR:

VPS/PDC


Press **◀** to select VPS/PDC then press the OK button repeatedly to select 'On' or 'Off'. With this setting on you have the guaranteed recording of the whole broadcast should there be a change in the TV programme. This only works if the selected channel broadcasts a VPS/PDC signal.


Speed

Press **▼** to select 'Speed' the press the OK button repeatedly to select between 'SP' for standard play or 'LP' for longplay. With longplay you can record twice as much on a videotape. The picture quality however may suffer.


VCR Setup

Press **▼** to select 'VCR Setup' then press the OK button repeatedly to select which VCR you wish to programme, namely 'VCR1' or 'VCR2'.




4. Finally, press **▶** to select the  icon then press the OK button to remove the menu from the TV screen.

 Most TV channels broadcast information via Teletext. The index page of the teletext service (usually page 100) gives you information on how to use the service. Please use a TV channel with a strong signal, otherwise there may be Teletext errors.




Switching Teletext on and off

1. Select the TV channel which carries the teletext service you want to view.
2. Press the  button once for Picture and Teletext (P&T). The screen is divided in two, with the TV channel in the right corner and the Teletext display on the left.



 In P&T mode press  then press **PROGR+/-** to change the channel of the TV screen. Press **◀** or **▶** to change the size of the TV screen then press  again to resume normal teletext reception.



3. Press  twice to get Teletext only.
4. Press  three times for Mix mode.
5. Press  a fourth time to switch off Teletext.

Selecting a Teletext page



Input three digits for the page number using the numbered buttons on the remote control. If you make a mistake, type in any three digits then re-enter the correct page number.



Using Other Teletext Functions




Selecting the next or preceding page

Press the  or  buttons on the remote control to select the previous or next page.


Selecting a sub page

A teletext page may consist of several sub pages. In this case an information line is displayed, showing the number of subpages. Select the sub page by pressing **▲** or **▼**.

To freeze a Teletext page

Press the  button to freeze the page. Press again to cancel the freeze.

Revealing the index page

Press the  button to reveal the index page (normally page 100).

Using colour buttons to access pages (Fastext)

(only available if the TV station broadcasts Fastext signals)

When the colour coded menu appears at the bottom of a page, press a coloured button on the remote control (green, red, yellow or blue) to access the corresponding page.



Using the feature 'Page Catching'

1. Press the numbered buttons on the remote control to select a teletext page which has several page numbers on it (eg the index page).
2. Press the OK button.
3. Press **▲** or **▼** to select the desired page number then press the OK button. The requested page is displayed after some seconds.

Teletext

Using the Teletext menu

1. With Teletext switched on, press the MENU button on the remote control to display the menu on the TV screen.
2. Press **▲** or **▼** to select your chosen item on the screen then press **▶** to display the relevant sub menu.
3. To remove the Teletext menu from the screen, press the MENU button.

Top/Bottom/Full

The Top/Bottom/Full sub menu allows you to enlarge different sections of the Teletext page. Press **▲** to enlarge the upper half of the screen. Press **▼** to enlarge the lower half. Press the OK button to restore the page to normal size. Press **◀** to return to the Teletext menu screen.

Text Clear*

*available on Teletext Only and Mix modes (Refer to 'Switching Teletext on and off')

Text Clear is a function that displays a TV channel while a Teletext page is being searched for. 1. Press the **■** button on the remote control twice to select full screen text.

2. Press the MENU button to display the 'Teletext' menu.

3. Press **▲** or **▼** to highlight 'Text Clear' and press **▶** to select.

4. The current TV channel is displayed. Once the text page has been found a blue **■** symbol will appear in the top left hand corner of the screen.

5. Press the **■** button on the remote control to view the page.

Reveal

Some Teletext pages contain hidden information (eg for a quiz), which can be revealed.

1. In text mode press the MENU button the remote control to access the 'Teletext' menu.
2. Press **▲** or **▼** to highlight 'Reveal' and press **▶** to select. The hidden information is displayed on the screen.

Time Page*

*depending on availability of service. Time Page is available on Teletext Only and Mix modes

Time Page allows a time-coded Teletext page (such as an alarm page), to be displayed at a set time.

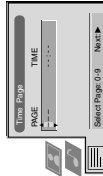
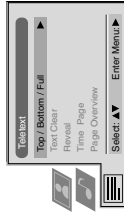
1. In Text mode press the MENU button on the remote control to access the 'Teletext' menu.
2. Press **▲** or **▼** to highlight 'Time Page' and press **▶** to select. The 'Time Page' sub menu is displayed.
3. Enter the desired page number using the numbered buttons on the remote control.
4. Enter the desired time using the remote control.
5. Press OK to confirm the settings. The TV will exit Teletext mode and the time will be displayed in the top left hand corner of the screen. At the requested time the desired page is displayed.

Page Overview*

*only available if TOP-Text is transmitted by the TV station.

In this menu the TOP-Text pages are divided into two columns, the first column showing 'blocks' of pages and the second showing 'groups' of pages.

1. Press **◀** or **▶** to select the first or second column.
2. Press **▲** or **▼** to select the relevant 'group' or 'block' of pages.
3. Press the OK button to display the chosen pages.



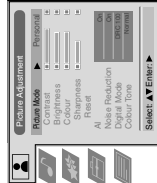
Using the TV menu system

The TV consists of a menu system which is based on a series of user friendly on-screen displays and menus. These displays will help you get the most from your TV, helping you to change picture and sound settings, to alter the size of the TV picture and to rearrange the TV channels etc.

Adjusting the picture and sound

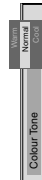
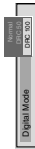
The picture and sound are preset at the factory. You can however adjust them to suit your own taste.

1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the **▲** or **▼** buttons to select **▶** for picture settings or **▶** for sound settings then press **▶** to enter either the 'Picture Adjustment' menu or the 'Audio Adjustment' menu.
3. Press the **▲** or **▼** buttons to select the item on the screen you wish to adjust then press **▶** to confirm. For a description of the menu items and their effects, see the table below.
4. Press the **▲**, **▼**, **▶** or **◀** buttons to adjust your selected item.
5. As soon as you have adjusted the item, press the OK button to store the new setting.
6. Repeat steps 3-5 if you wish to adjust any of the other items.
7. Press the MENU button to remove the menu from the TV screen.



Picture Control

Item	Effect/Operation
Picture Mode	▼ Live (for live broadcasts) Personal (for individual settings) Movie (for movie broadcasts) ▲ Game (for computer games)
Contrast	Less ◀ ▶ More
Brightness*	Darker ◀ ▶ Brighter
Colour*	Less ◀ ▶ More
Hue**	Reddish ◀ ▶ Greenish
Sharpness*	Softer ◀ ▶ Sharper
*Only available if 'Personal' is selected in 'Picture Mode'	
**Only available for NTSC colour signal (eg. US video tapes)	
Reset	Resets picture to the factory preset levels
AI (Artificial Intelligence)	▼ Off: Normal ▲ On: Automatic optimization of contrast level according to the TV signal.
Noise Reduction	▼ High: High noise reduction. Mid: Medium noise reduction. Low: Low noise reduction. Auto: Optimum noise reduction automatically selected. ▲ Off: No noise reduction.
Digital Mode	▼ Normal: Basic 100Hz picture quality DRC 50: Improved picture resolution for viewing scrolling characters ▲ DRC 100: Optimum picture resolution creating flicker-free pictures
Colour Tone	▼ Warm: Gives a warm tint to the picture. Normal: Normal. ▲ Cool: Gives a cool tint to the picture.



Sound Control

Item	Effect/Operation
Equaliser Mode	<div>▼ Personal</div> <div>Vocal</div> <div>Jazz</div> <div>Rock</div> <div>Pop</div> <div>▲ Flat (fixed setting, cannot be adjusted)</div>
Equaliser adjustment	You can adjust the mode selected in Equaliser mode by cutting and boosting the 5 selected frequency bands. Press ◀ or ▶ to select the frequency band then ▼ or ▲ to adjust the frequency. Finally, press the OK button to store the new adjustment.
	<div>① If you want to store the new settings, you need to set the Equaliser mode to 'Personal'. Personal mode permanently stores the setting, all other modes (Vocal, Jazz, Rock, Pop) store only until the next mode change.</div>
Balance	<div>◀ More left</div> <div>▶ More right</div>
Loudness	<div>▼ Off: Normal</div> <div>▲ On: For music broadcasts</div>
Space	<div>▼ Off: Normal</div> <div>▲ On: Special acoustic effect</div>
Auto Vol. Control	<div>▼ On: Volume level of the channels will stay the same independent of the broadcast signal (eg in the case of advertisements)</div> <div>▲ Off: Volume level changes according to the broadcast signal.</div>
Dual Sound	<div>For a bilingual broadcast:</div> <div>▼ A for channel 1</div> <div>▲ B for channel 2</div> <div>For a stereo broadcast:</div> <div>▼ Mono</div> <div>▲ Stereo</div>

① When NICAM stereo is being broadcast, the indication NICAM appears briefly on the screen.

Headphones
🔊 Volume

Adjusts headphone volume.
Can also adjust the volume level of additional equipment connected to the RCA sockets on the rear of the TV.

🔊 Dual Sound


Only available when PAP feature is selected:

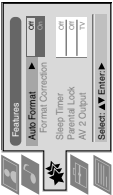
▼ Stereo: The sound of one screen comes through both the TV loudspeakers and the headphones.

▲ PAP: The sound of the left screen comes through the TV loudspeakers, the sound of the right screen is selectable via headphones.

For more detail on PAP, refer to the 'Operating PAP' section of this manual.

Using the Features menu


- Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ▲ or ▼ buttons to select  for the 'Features' menu then press ▶ to enter the 'Features' menu.
- Press the ▲ or ▼ buttons to select the desired menu item then press ▶ to confirm. For a description of the menu items and their effects, see the table below.
- Press the ▲ ▼ ▶ ◀ buttons to select the desired setting.
- Press the OK button to confirm your choice of setting.
- Repeat steps 3-5 if you wish to select any of the other items.
- Press the MENU button to remove the menu from the TV screen.



Item	Effect/Operation
Auto Format*	<div>▼ Off: Size of picture does not automatically adjust. Normal: Size of picture automatically adjusts according to information from the broadcaster.</div> <div>▲ Full: The TV will automatically adjust the picture size to eliminate any dark areas on the TV picture (as shown below):</div>
Format Correction*	<div>▼ Off: 4:3/14:9 is selected</div> <div>▲ On: Smart mode is selected automatically for 4:3/14:9 broadcasts set to 'Normal' or 'Full'</div>
Sleep Timer	<div>You can select a time after which the TV switches itself into standby mode.</div> <div>▼ Off</div> <div>▲ 90 min</div>
Parental Lock	<div>▼ Off: No parental lock.</div> <div>▲ On: This feature disables the TV buttons when the set is in standby mode. It is only possible to switch the set back on by pressing a button on the remote control.</div>
AV2 Output	<div>▼ TV audio/video signal from the aerial</div> <div>▲ AV1 audio/video signal from scart 1</div> <div>▲ AV2 audio/video signal from scart 2</div> <div>▲ AV3 audio/video signal from scart 3</div> <div>▲ AV4 audio/video signal from connectors on front of the TV</div>

Changing the screen size

① This feature allows you to change the size of the TV picture.

Press the  button on the remote control repeatedly or use the ▲ or ▼ buttons to select one of the following formats then press the OK button to confirm your selection:

Smart

4:3

conventional 4:3 picture size, full picture information.

14:9

compromise between 4:3 and 16:9 picture size.

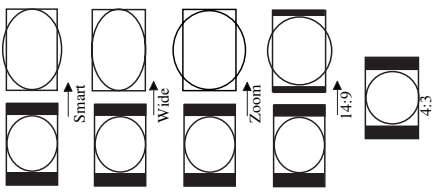
Zoom

widescreen format for letterbox movies

Wide

for 16:9 broadcasts.


In Smart, Zoom and 14:9 modes parts of the top and bottom of the screen are cut off. Press ▲ or ▼ to adjust the position of the image on screen (eg to read subtitles) then press the OK button to confirm.

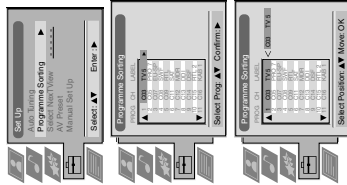


Using the TV menu system:

Re-arranging the TV channels


i After tuning the TV, you can use this feature to change the order of the channels on the TV.

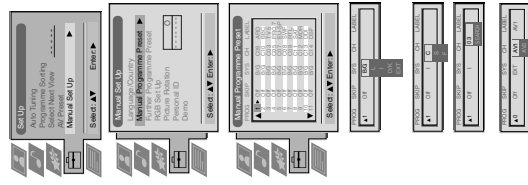
1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ▼ button to select the  symbol on the menu screen then press ► to enter the 'Set Up' menu.
3. Press the ▼ button to select 'Programme Sorting' then press ► to enter the 'Programme Sorting' menu.
4. Press the ▲ or ▼ buttons to select the channel you want to move then press ► to confirm.
5. Press the ▲ or ▼ buttons to select the new programme position (eg PROG 4) for your selected channel then press the OK button to confirm. The selected channel now moves to its new programme position and the other channels move accordingly.
6. Repeat steps 4 and 5 if you wish to sort the other channels.
7. Press the MENU button to remove the menu from the TV screen.



Manually tuning the TV

i You have already tuned the TV automatically using the instructions at the start of this manual. You can however carry out this operation manually, adding channels to the TV, one at a time.


1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ▼ button to select the  symbol on the menu screen then press ► to enter the 'Set Up' menu.
3. Press the ▼ button to select 'Manual Set Up' on the menu screen then press ► to enter the 'Manual Set Up' menu.
4. Press the ▼ button to select 'Manual Programme Preset' on the menu screen then press ► to enter the 'Manual Programme Preset' menu.
5. Press the ▲ or ▼ buttons to select a programme number for your channel (eg PROGR 1 for BBC1) then press ► to highlight the 'SKIP' column.
6. Press ► to select 'OFF' then press ► to highlight the 'SYS' column.
7. Press the ▲ or ▼ buttons to select the TV broadcast system or 'EXT' for a video input source (AV1, AV2, ...) then press ► to confirm.
8. Press the ▲ or ▼ buttons to select 'C' for terrestrial channels, 'S' for cable channels, or 'F' for direct frequency inputs then press ► to confirm.
9. Select the first number digit of 'CH' (channel) then the second number digit of 'CH' with the number buttons on the remote control or Press the ▼ button to search for the next available channel.
10. If you do not wish to store this channel on the programme number you selected, press the ▲ or ▼ buttons to continue searching for the desired channel.
11. If this is the channel you wish to store, press the OK button.
12. Repeat steps 5-11 if you wish to store more channels then press the MENU button to remove the menu from the TV screen.

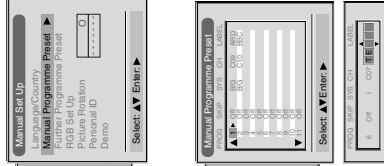


Using the TV menu system:

Naming a channel


i Names for channels are usually taken automatically from Teletext if available. You can however name a channel or an input video source using up to five characters (letters or numbers).

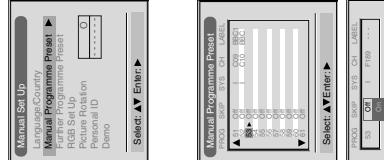
1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ▼ button to select the  symbol on the menu screen then press ► to enter the 'Set Up' menu.
3. Press the ▼ button to select 'Manual Set Up' then press ► to enter the 'Manual Set Up' menu.
4. Press the ▼ button to select 'Manual Programme Preset' then press ► to enter the 'Manual Programme Preset' menu.
5. Press the ▲ or ▼ buttons to select the channel you wish to name.
6. Press the ► button repeatedly until the first element of the 'LABEL' column is highlighted.
7. Press the ▲ or ▼ buttons to select a letter or number (select '.' for a blank) then press ► to confirm. Select the other four characters in the same way.
8. After selecting all the characters, press the OK button.
9. Repeat steps 5 to 8 if you wish to label other channels.
10. Press the MENU button to remove the menu from the TV screen.



Skipping programme positions

i This function enables you to skip unused programme positions when selecting them with the PROG+/- buttons. However, by using the number buttons you can still select the skipped programme position.













1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ▼ button to select the  symbol on the menu screen then press ► to enter the 'Set Up' menu.
3. Press the ▼ button to select 'Manual Set Up' then press ► to enter the 'Manual Set Up' menu.
4. Press the ▼ button to select 'Manual Programme Preset' then press ► to enter the 'Manual Programme Preset' menu.
5. Press the ▲ or ▼ buttons to select the programme position then press ► to highlight the 'SKIP' column.
6. Press the ▲ or ▼ buttons to select 'Off' or 'On' (if you wish to skip this programme position) then press the OK button to store.
7. Repeat steps 5 and 6 if you wish to skip or unskip further programme positions.
8. Press the MENU button to remove the menu from the TV screen.





Using the TV menu system:

Using the Further Programme Preset feature



i With this feature you can a) adjust the attenuation of each channel, b) individually adjust the volume level of each channel, c) manually fine-tune the TV to obtain a better picture reception if the picture is distorted or d) preset the AV output for the programme positions of channels with scrambled signals (eg from a pay TV decoder). In this way a connected VCR records the unscrambled signal.

1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the  button to select the  symbol on the menu screen then press  to enter the 'Set Up' menu
3. Press the  button to select 'Manual Set Up' then press  to enter the 'Manual Set Up' menu.
4. Press the  button to select 'Further Programme Preset' then press  to enter the 'Further Programme Preset' menu.
5. Press the  or  buttons to select the relevant programme number then press the  button repeatedly to select a) ATT b) VOL c) AFT or d) DECODER. The selected item changes colour.
6. a)ATT - RF Attenuator
Press the  or  buttons to switch attenuator 'on' or 'off'. Press the OK button to confirm the selection. Repeat steps 5 and 6a if you wish to adjust the attenuation of the other channels.



b)VOL - Volume Offset

Press the  or  buttons to adjust the volume level (range -7 to +7) of the channel. Store by pressing the OK button. Repeat steps 5 and 6b if you wish to adjust the volume level of the other channels.

c) AFT - Automatic Fine Tuning

Press the  or  buttons to fine tune the channel frequency over a range of -15 to +15. Press the OK button to confirm. Repeat steps 5 and 6c if you wish to fine tune other channels.









d)DECODER

Press the  or  buttons to select AV1 or AV2 for the programme position then press the OK button to confirm. You can now attach a decoder to the AV1 or the AV2 socket on the back of the TV and the picture from that decoder will appear on this programme number. Repeat steps 5 and 6d to preset the AV output for other programme positions.

7. Press the MENU button to remove the menu from the TV screen.

Selecting the 'Demo' feature










i This function provides an overview of some of the features available on the TV.

1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the  button to select the  symbol on the menu screen then press  to enter the 'Set Up' menu
3. Press the  button to select 'Manual Set Up' then press  to enter the 'Manual Set Up' menu.
4. Press the  button to select 'Demo' then press  to start the demonstration (which lasts for approximately 5 minutes).
5. Press the  button to remove the demonstration from the TV screen.

Using the TV menu system:
















Adjusting the picture rotation

i Because of the earth's magnetism the picture might slant. In this case you can readjust the picture.

1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the  button to select the  symbol on the menu screen then press  to enter the 'Set Up' menu
3. Press the  button to select 'Manual Set Up' then press  to enter the 'Manual Set Up' menu.
4. Press the  button to select 'Picture Rotation' then press  to enter the 'Picture Rotation' sub menu.
5. Press the  or  buttons to rotate the picture over a range of -5 to +5 then press the OK button to store.
6. Press the MENU button to remove the menu from the TV screen.

Adjusting the picture geometry for an RGB source

i When connecting an RGB source such as a Sony Playstation you may need to readjust the geometry of the picture.

1. Press the  button on the remote control to select the connected RGB source .
2. Press the MENU button to display the menu on the TV screen.
3. Press the  button to select the  symbol on the menu screen then press  to enter the 'Set Up' menu
4. Press the  button to select 'Manual Set Up' on the menu screen then press  to enter the 'Manual Set Up' sub menu
5. Press the  button to select 'RGB Set Up' on the menu screen then press  to enter the 'RGB Set Up' sub menu.
6. Press  to select H Centre then press  or  to adjust the centre of the picture over a range of -10 to +10. Store the new range by pressing the OK button.
7. Press  to select H Size then press  or  to adjust the horizontal coordinates over a range of -10 to +10. Store the new range by pressing the OK button.
8. Press the MENU button to remove the menu from the TV screen.

Specifications

TV system I	Sound output Left/Right: 2x20W (Music Power) 2x10W (RMS) Sub woofer: 30W (Music Power) 15W (RMS)
Colour system PAL, SECAM NTSC 3,58, 4.43 (only Video In)	Power consumption KV-28FQ75: 152W KV-32FQ75: 160W
Channel coverage See the 'Channel Display Table' below.	Dimensions (wxhxd) KV-28FQ75: Approx. 788x571x563mm KV-32FQ75: Approx. 886x620x592mm
Picture tube KV-28FQ75: FD Trinitron WIDE, Approx. 72cm (28 inches) KV-32FQ75: FD Trinitron WIDE, Approx. 82cm (32 inches)	Weight KV-28FQ75: Approx. 46.0kg KV-32FQ75: Approx. 74.0kg
Rear Terminals Ⓖ-1/Ⓖ-1 21-pin Euro connector (CENELEC standard) including audio/ video input, RGB input, TV audio/video output. Ⓖ-2/Ⓖ-2 21-pin Euro connector (CENELEC standard) including audio/ video input, S-video input, Selectable audio/video output. Ⓖ-3/Ⓖ-3 21-pin Euro connector (CENELEC standard) including audio/ video input, S-video input, Monitor audio/video output. Ⓖ- R/D/D/D L/G/S/R RCA connectors, variable output for audio signals	Accessories supplied RM-893 remote control (1) IEC designated size AA batteries (2)
TV Stand KV-28FQ75: SU28FQ1 KV-32FQ75: SU32FQ1	Optional accessory
Front Terminals Ⓖ-4 Video input -phono jacks Ⓖ-4 Audio inputs - phono jacks Ⓖ-4 S video input - 4 pin DIN Ⓖ- Headphones jack - mini/jack stereo	Other features Flat display Trinitron tube, noise reduction, DRC 50Hz picture, DRC 100Hz picture, PAP, PAT, M-PIP, graphic equaliser, 200 page TEXT memory, personal ID, sleep timer, NextView, Digital Comb Filter, second tuner.

Design and specifications are subject to change without notice.

Channel Display Table

	Receivable Channels	Channel Displays
I	B21..B69	C21..C69

Troubleshooting

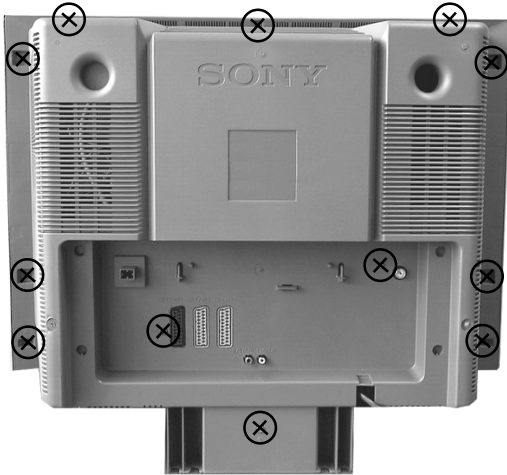
Here are some simple solutions to problems which may affect the picture and sound.

Problem	Suggested remedy
No picture (screen is dark), no sound	<ul style="list-style-type: none">• Plug the TV in.• Press the ⓪ button on the front of the TV.• If the ⓪ indicator is on press the 1/⓪ button or a numbered button on the remote control.• Check the aerial connection.• Turn the TV off for 3 or 4 seconds and then turn it on again using the ⓪ button on the front of the TV.
Poor or no picture (screen is dark), but good sound.	<ul style="list-style-type: none">• Using the MENU system, select the Picture Adjustment display. Adjust the brightness, picture and colour balance levels.• From the Picture Adjustment display select RESET to return to the factory settings.
Good picture, no sound	<ul style="list-style-type: none">• Press the ⏮ button on the remote control.• If ⏮ is displayed on the screen, press the ⏮ button on the remote control.
No colour on colour programmes	<ul style="list-style-type: none">• Using the MENU system, select the Picture Adjustment display and adjust the colour setting.• From the Picture Adjustment display select RESET to return to the factory settings.
Distorted picture when changing programmes or selecting Teletext	<ul style="list-style-type: none">• Turn off any equipment connected to the scart connectors on the rear of the TV.
Remote control does not function	<ul style="list-style-type: none">• Replace the batteries.
The standby indicator ⓪ on the TV flashes	<ul style="list-style-type: none">• Contact your nearest Sony service centre.
Interference on picture from external equipment	<ul style="list-style-type: none">• Reduce sharpness level.

- If you continue to have these problems, have your TV serviced by qualified personnel.
- NEVER open the casing yourself.

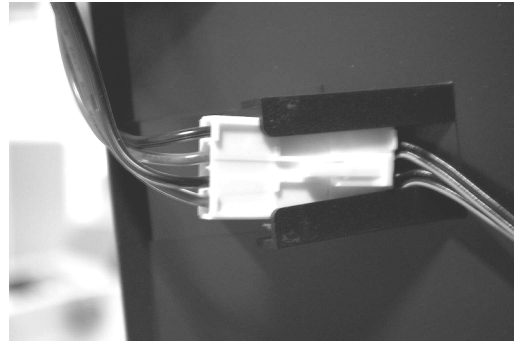
SECTION 2 DISASSEMBLY

2-1. Rear Cover Removal



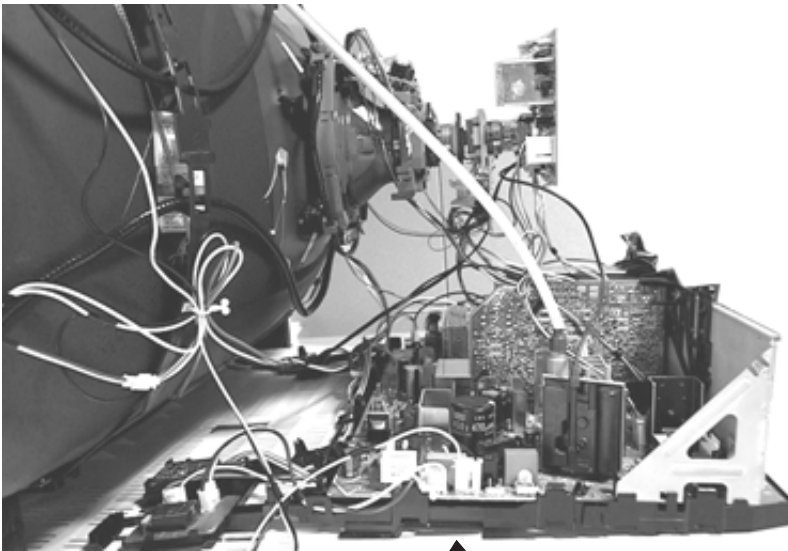
Remove the rear cover fixing screws indicated. Take care when removing the rear cover not to damage the speaker cables [Disconnect the speaker connector] as speakers are fitted inside the rear cover.

2-2. Speaker Connector Disconnection

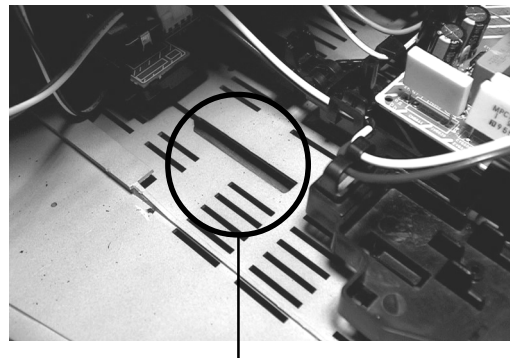


Before completely removing the rear cover disconnect the speaker connector which is located on the inside.

2-3. Chassis Removal and Refitting

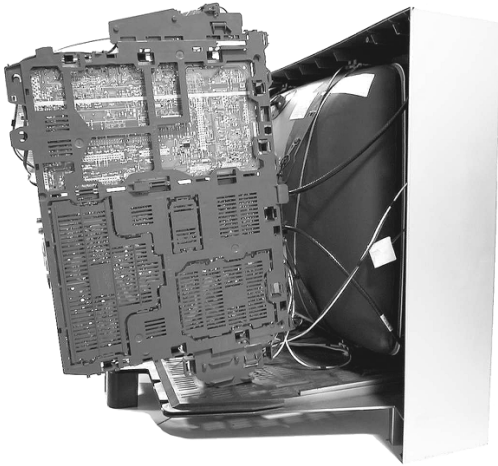


To remove lift the main bracket rear slightly and slide the chassis away from the beznet. Ensure that the interconnecting leads are released from their purse locks to prevent damage being caused.



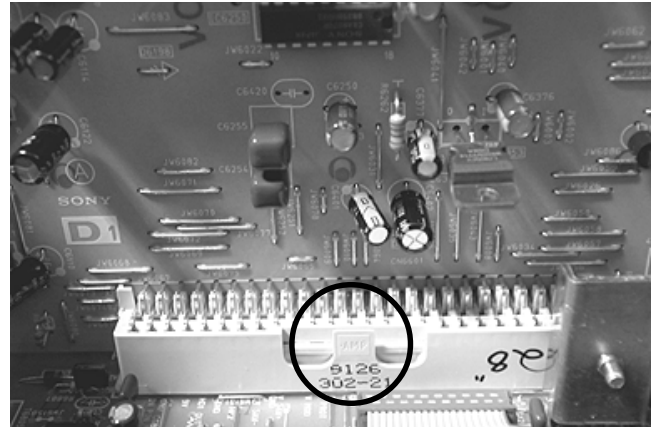
When refitting the chassis ensure that the main bracket is located in the beznet guide slots before sliding the chassis forwards. Refit the interconnecting leads in their respective purse locks.

2-4. Service Position



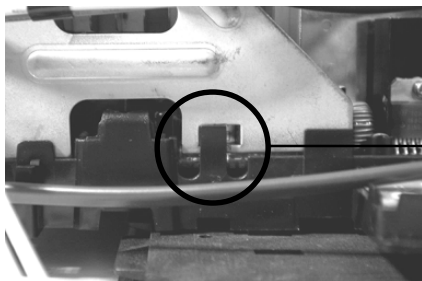
Position the PWB as indicated to access the solder side. To gain access to the D Board follow the instructions on page 19. [Removal and Replacement of the main bracket bottom plates].

2-5. D1 Board Removal



To remove the D1 Board release the clip circled and gently remove the board in a vertical direction.

2-6. J Board Removal



Clip

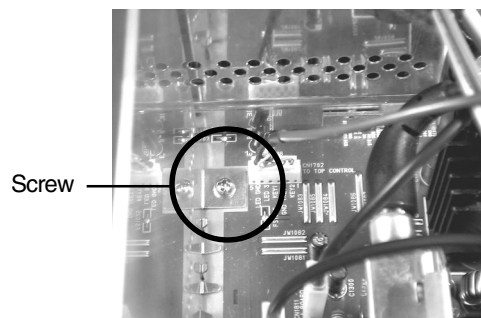
Release the two metal bracket support clips located on either side of the chassis. Tilt the bracket very slightly away from the shield case indicated. Release the J board board socket retaining clip and carefully lift the complete assembly vertically.



Shield case

2-7. B3 Board Removal

Follow the steps indicated in removal of the J board. With the assembly removed access to the B3 board shield is possible. To remove the shield locate and remove the two screws positioned on either side and at opposite ends of the shield. Release the B3 board clip and remove in a vertical direction. Please ensure that the screws are refitted after service.



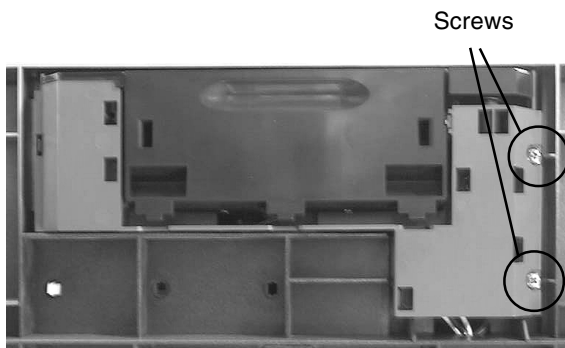
Screw

Note :

Removal of the B3, E, and M1 printed circuit boards follows the same procedure of releasing the securing clips as indicated in the fig for D1 board removal. Take care not to apply to great a pressure to the clips as this may cause damage.

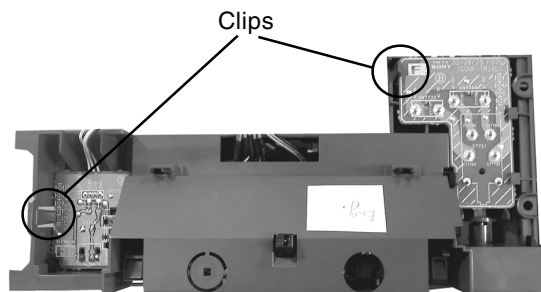
2-8. Front Control Module Removal

Remove the two screws fixing the user control module to the front underside of the set. The control module drops down to allow access to the boards.



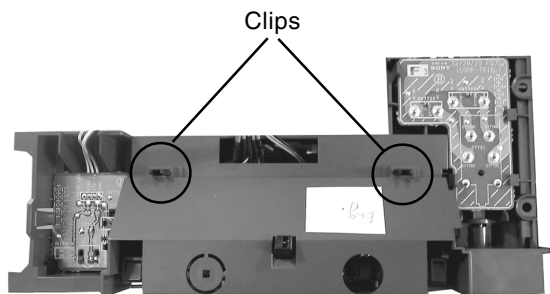
2-9. F3 and H6 Board Removal

To remove the F3 and H6 Boards release the clips circled and ease the boards gently away from the main support bracket.



2-10. H5 Board Removal

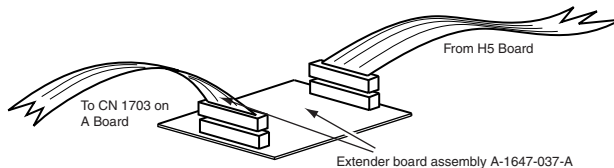
To remove the H5 Board, first remove the control door from bracket by releasing the clips circled and pushing them through the main support bracket.



Removal of H5 Board follows the same procedure as removal of the F3 and H6 Boards.

2-11. Service Connector for H5 Board

If there is a requirement to use the front video and audio sockets when the chassis is placed in its service position, it would be necessary to use an extender board and extension cable as indicated below.

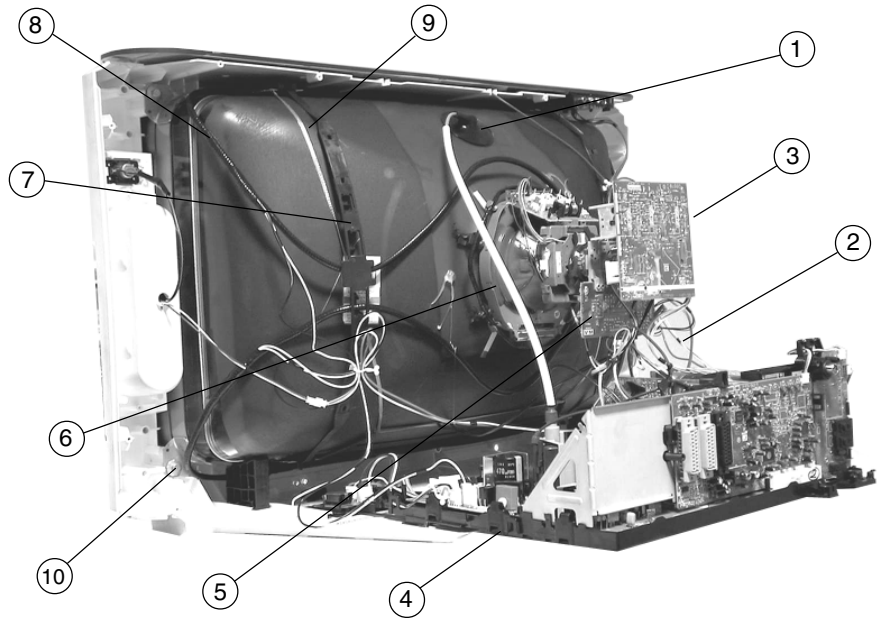
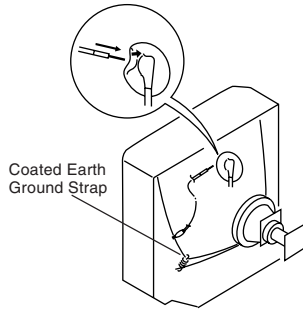


The Extender board and extension cable are available as a service part by ordering the part number as indicated.

2-12. Picture Tube Removal

WARNING: BEFORE REMOVING THE ANODE CAP

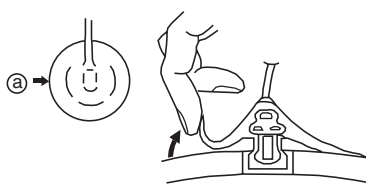
High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT **before** attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.



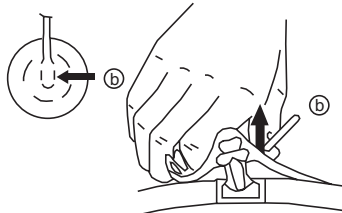
1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the Deflection yoke, neck assy, degaussing coils and CRT grounding strap.
3. Remove the C Board from the CRT.
4. Remove the chassis assembly.
5. Loosen the Neck assembly fixing screw and remove.
6. Loosen the Deflection yoke fixing screw and remove.
7. Place the set with the CRT face down on a cushion and remove the Degaussing Coil holders.
8. Remove the Degaussing Coils.
9. Remove the CRT grounding strap and spring tensioners.
10. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT.
[Take care not to handle the CRT by the neck.]

Removal of the Anode-Cap

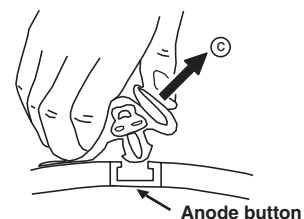
* REMOVING PROCEDURES.



- ① Turn up one side of the rubber cap in the direction indicated by the arrow (a)



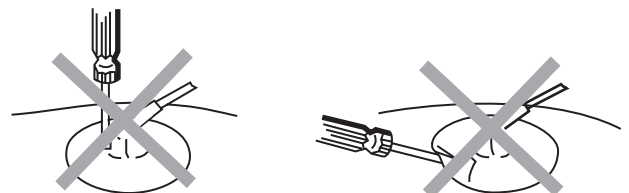
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)



- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

How to handle the Anode-Cap

1. To prevent damaging the surface of the anode-cap do not use sharp materials.
2. Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
3. A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
4. Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.



REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

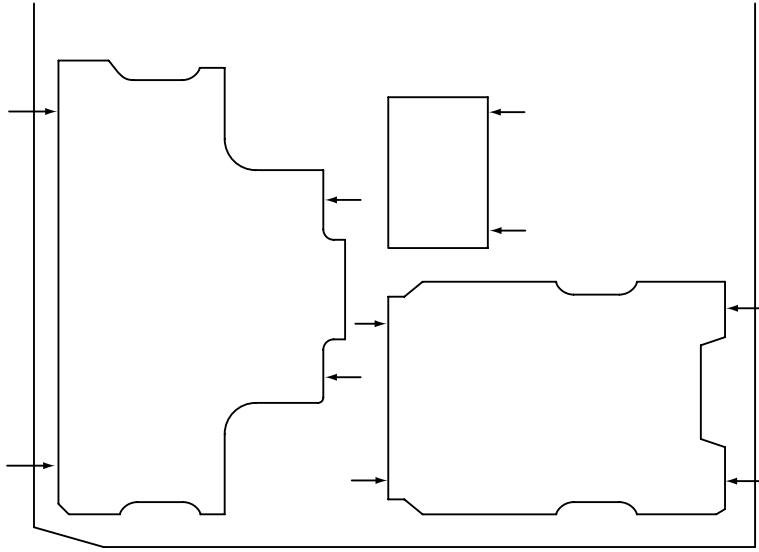
(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the D Board printed wiring board, the bottom plates fitted to the main chassis bracket require to be removed.

This is performed by cutting the gates with a sharp wire cutter at the locations indicated by the arrows.

Note : There are 3 plates fitted to the main bracket and secured by 3 gates.

Only remove the necessary plate to gain access to the printed wiring board.

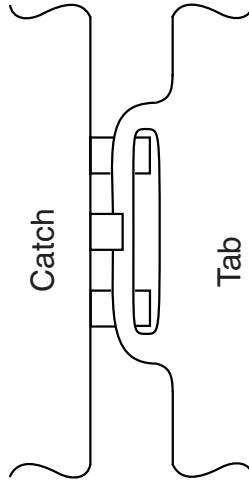


 For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from their cut position to allow the tabs to be fitted into their catch positions.



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings :

Contrast normal

Brightness normal

Carry out the adjustments in the following order :

- 3-1. Beam Landing.
- 3-2. Convergence.
- 3-3. Focus.
- 3-4. White Balance.

Note : Test equipment required.

1. Color bar/pattern generator.
2. Degausser.
3. Oscilloscope.
4. Digital multimeter.

3-1. Beam Landing

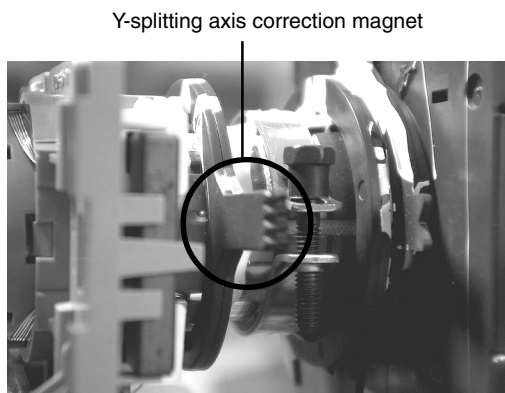
Preparation :

1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
2. Switch on the TV set's power and degauss with a degausser.

(1) Adjustment of Neck Assembly and Y-Splitting Axis.

1. Position the neck assembly as indicated in Fig.3-2.
2. Loosen the deflection yoke fixing screw.
6. Position the Y-splitting axis correction magnets located on the neck assembly as indicated in Fig 3-1.

Fig.3-1



Caution :

High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.

(2) Landing

Note : Before carrying out the following adjustments adjust the magnets as indicated below [See Fig.3-5].

1. Input a crosshatch signal from the signal generator.
2. Rough-adjust the focus and horizontal convergence.
3. Switch from the crosshatch pattern to an all-red pattern.

4. Move the deflection yoke backwards and adjust with the purity magnet so that the red is at the centre and it aligns symmetrically [See Fig.3-6].
5. Move the deflection yoke forward to the point where the entire screen just becomes red [Mark its position].
6. Move the deflection yoke further forward until the screen just changes colour at the edges. [Mark its position]
7. Position the deflection yoke between the two marks indicated above.
8. Input a crosshatch pattern from the pattern generator and rotate the deflection yoke so that the horizontal lines are parallel with the top and bottom of the screen.
9. When the position of the deflection yoke has been determined, fasten it with its fixing screw.
10. Adjust the upper and lower pin symmetrically by tilting the DY up and down then insert a DY wedge at the top. Use the Y-splitting axis magnets to finely adjust the pin balance. [Fig.3-3].
11. Adjust the H-trap by moving the DY left or right. Insert DY wedges at top and bottom left and top and bottom right. Finely adjust using the H-trap VR on the DY assembly. [See Fig.3-4].
12. Switch the pattern generator to green then blue and confirm the purity.
13. If the beam does not land correctly in all the corners of the screen, use disk magnets to correct it. [Confirm the corner landing for green and blue]

Fig.3-2

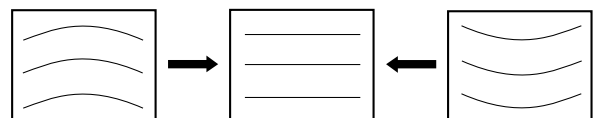
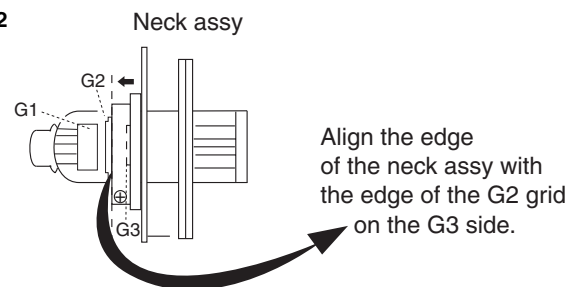


Fig.3-3

Fig.3-4

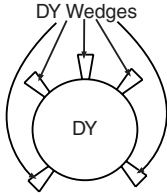


Fig.3-5

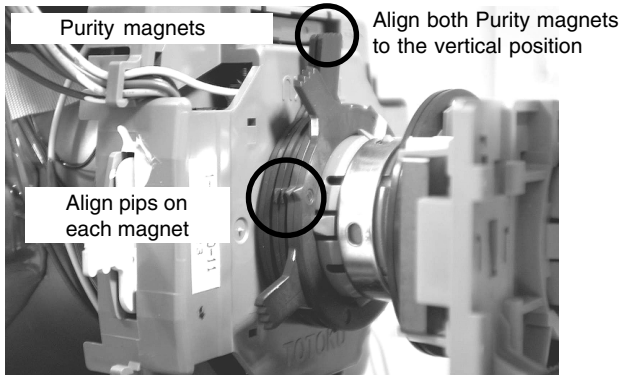
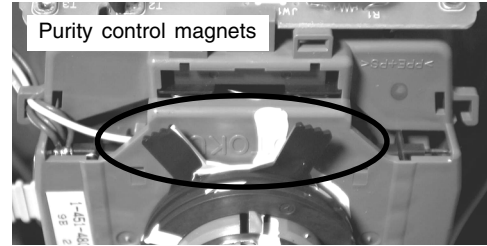
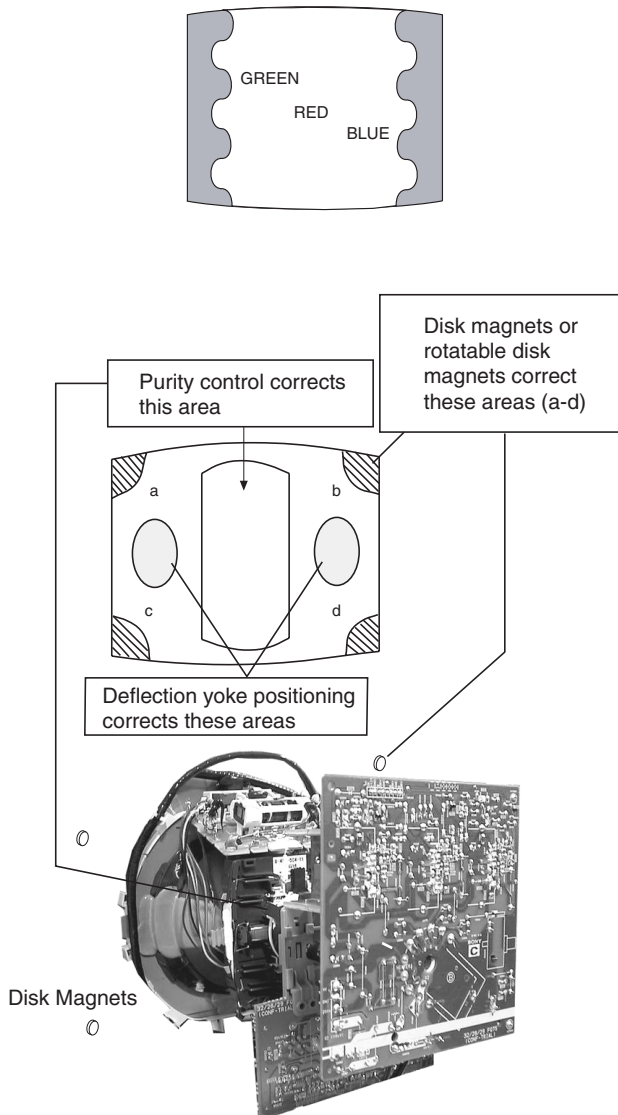


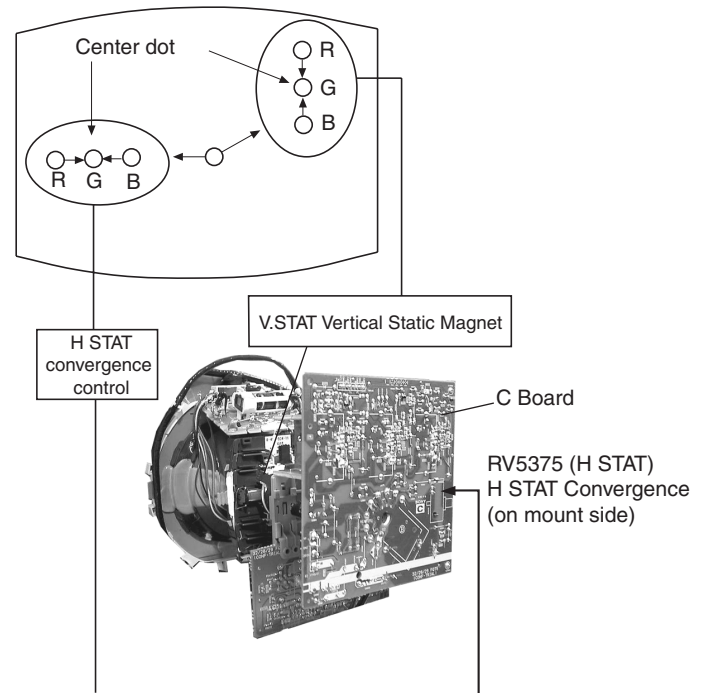
Fig.3-6



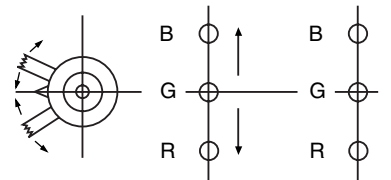
3-2. Convergence

(1) Screen centre convergence [Static convergence]

1. Input a dot pattern signal from the pattern generator.
2. Normalize the picture setting.
3. [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.



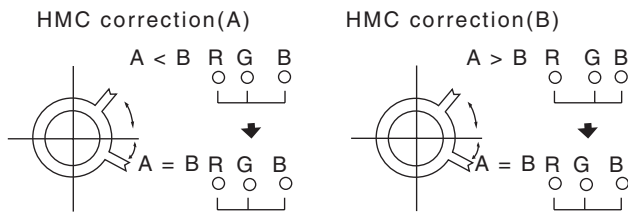
By opening or closing the V.STAT magnet, the red green and blue dots move in the direction indicated below.



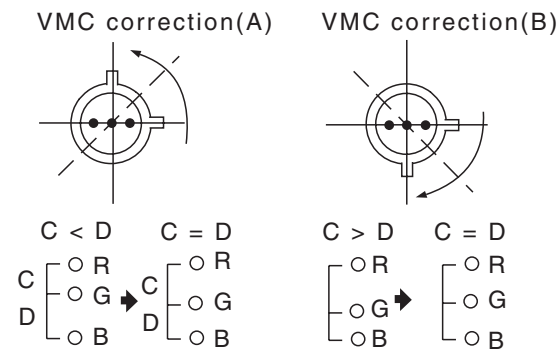
Note: Do not adjust the H.STAT by rotating the V.STAT magnets as this can affect the focus setting.

4. Correction for HMC [Horizontal mis-convergence] and VMC [Vertical mis-convergence] by using the BMC [Hexapole] magnet.

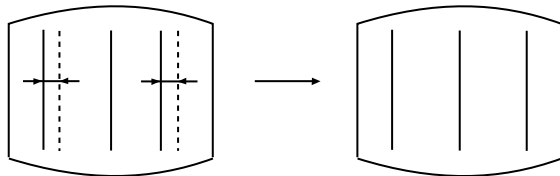
- a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.



- b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.

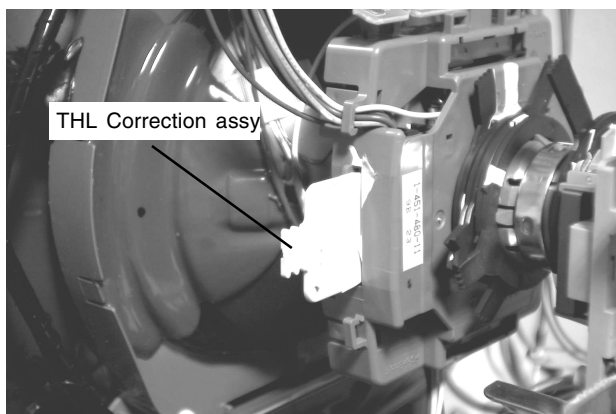


HAMP Adjustment

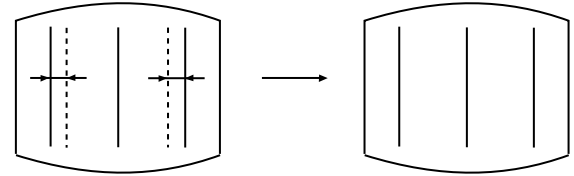


Adjust the HAMP using HAMPL and HAMPR registers in the Dynamic Convergence section of the service menu.

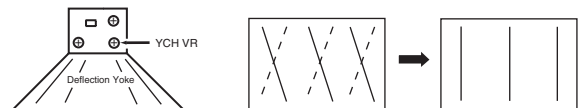
HTIL Adjustment



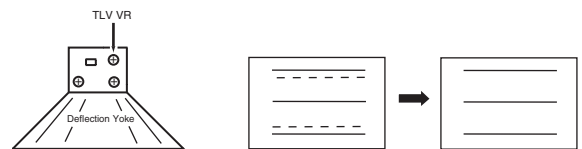
HTIL correction can be performed by adding a THL correction assembly to the Deflection yoke.



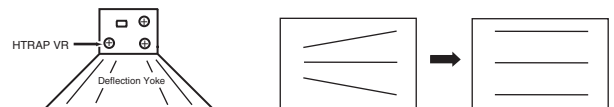
YCH Adjustment



TLV Adjustment

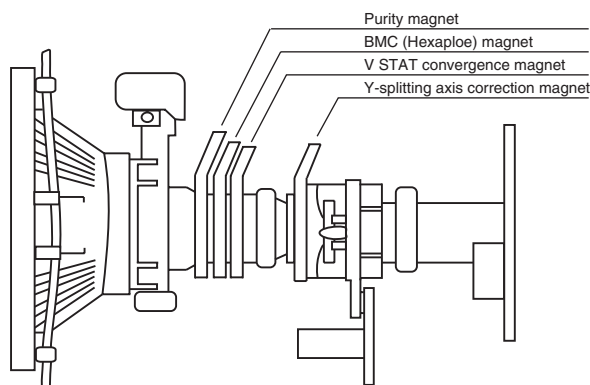


H-TRAP Adjustment

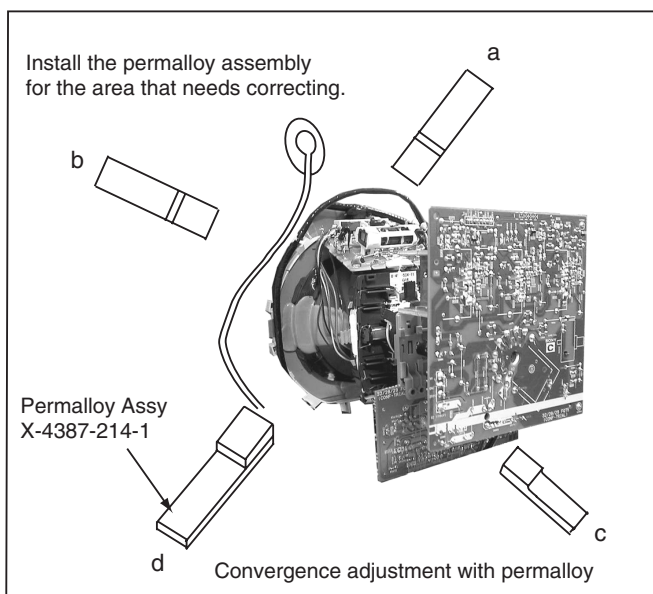
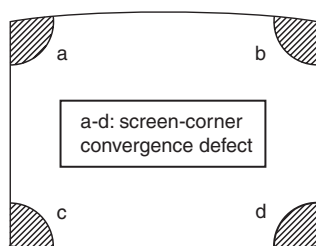


The H-TRAP should not be adjusted unless absolutely necessary as it affects the TLV settings.

Layout of each control

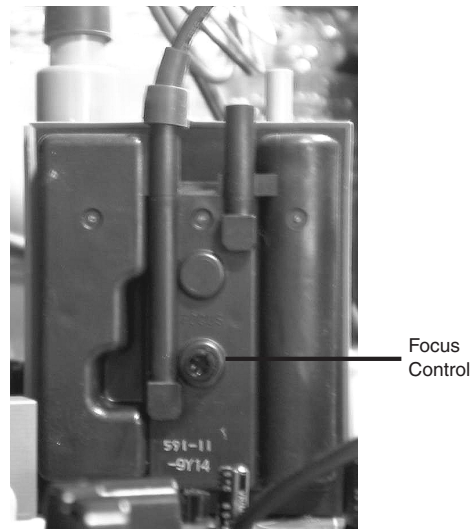


Note : If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.



3-3. Focus Adjustment

1. Receive a television broadcast signal.
2. Normalize the picture setting.
3. Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.
Bring only the centre area of the screen into focus, the magenta-
ring appears on the screen. In this case, adjust the focus to
optimize the screen uniformly.



3-4. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

G2 adjustment [RV5376]

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 170V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control RV5376 [SCREEN] located on the C Board to the point just before the flyback return lines disappear.

White balance adjustment for TV mode

1. Input an all-white signal from the pattern generator.
2. Enter into the 'Service Mode' by pressing 'TEST', 'TEST' and 'MENU' 'MENU' on the Service Commander.
3. Select 'Backend' from the on screen menu display and press 'OK'.
4. The 'Backend' menu will appear on the screen.[See Page 26]
5. Set the 'Contrast' to MAX.
6. Set the 'R-Drive' to 41.
7. Adjust the 'G-Drive' and the 'B-Drive' so that the white balance becomes optimum.
8. Press the 'OK' button to write the data for each item.
9. Set the 'Contrast' to MIN.
10. Set the 'R-Cutoff' to 31.
11. Adjust the 'G-Cutoff', and the 'B-Cutoff' with the left and right buttons on the remote commander so that the white balance becomes optimum.
12. Press the 'OK' button to write the data for each item.

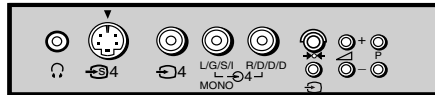
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. Electrical Adjustments

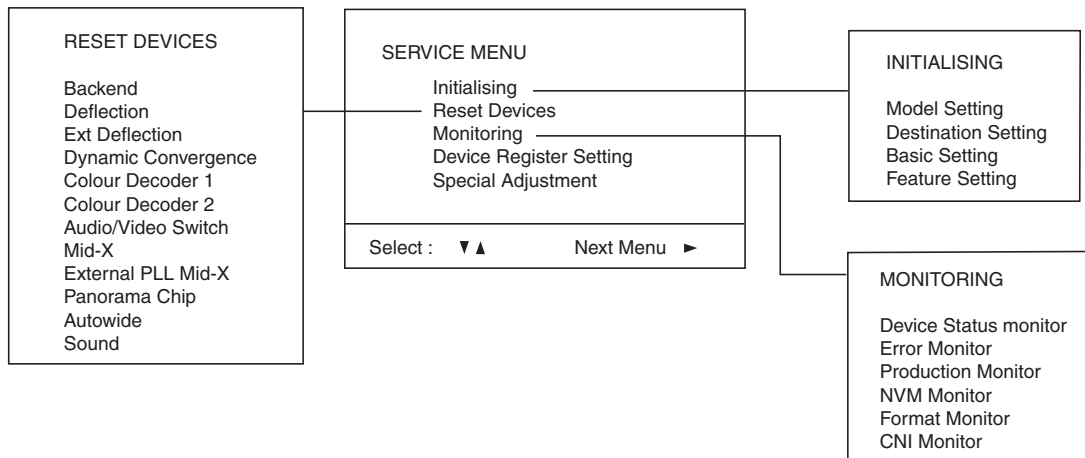
Service adjustments to this model can be performed using the supplied Remote Commander RM-893.

How to enter into the Service Mode

1. Turn on the main power switch of the set while pressing P + (plus) and P - (minus) buttons on the front drop down control panel.



2. 'TT' will appear in the upper right corner of the screen.
3. Press the 'MENU' button twice on the remote commander to obtain the service menu on the screen.



4. Push the joystick up or down on the remote commander to select the adjustment item.
5. Push the right button to proceed to the next menu.
6. If the required adjustment item is 'Deflection', push the down button to move to 'Deflection'.
7. Push the joystick to the right to enter into 'Deflection'.
8. Change the data in order to comply with each standard.

Note :

- Before performing any adjustments ensure that the correct model has been selected in the 'Model Setting' menu.
- After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.

Initialising Menu

Initialising	
Model Setting	
Destination Setting	
Basic Setting	
Feature Setting	
Select :	Next menu:

Model Setting

The menu contains a list with all the available models of this software to set up the TV set in an easy way. The selection of a model is setting data for its features and hardware resources which cannot be detected by the automatic power on H/W detection as well as a special *model byte* to get an unique model identification for models which cannot be differed by features and hardware resources (e.g. KV-28FC60 and KV-28FC60Z)

Before data is set, the user will be asked if he really wants to set a new model. If the user agrees, automatically the destination setting menu is shown.

Model Setting		
1	KV-28FC60	Reset
2	KV-28FC60Z	
3	KV-29FC60	
4	KV-32FC60	
5	KV-32FC60Z	
6	KV-34FC60	
7	KV-28FQ75	
8	KV-29FQ75	
9	KV-32FQ75	
10	KV-34FQ75	
11	KV-28FS70	
12	KV-32FS70	
13	KV-36FS70	
BLACK = No Conformity		
GREEN = Compatible Model		
RED = Conformity for all data		

Table.4-1

Indication of Model Compatibility.

Black:

If any data does not match to specific model, the model name is displayed in black.

Green:

All data which is checked by model setting menu concurs to model except model byte.

Red:

All data which is checked by model setting menu concurs to model including model byte.

Note:

After selecting a model, it may be necessary to reset some devices to get the correct data. (Treble/Bass Offset of Sound, deflection adjustments, ...)

Basic Setting

Basic setting				
No	Descr	Min	Max	Data
1	Sys.B/G	OFF	ON	ON
2	Sys.D/K	OFF	ON	ON
3	Sys.L	OFF	ON	OFF
4	Sys.I (UK)	OFF	ON	OFF
5	Sys.I (IRL)	OFF	ON	ON
6	TXTNat.option	1	4	3
7	16:9 CRT	OFF	ON	ON
8	Sub-woofer	OFF	ON	ON
9	Auto stand-by	OFF	ON	ON
10	Comb-filter	OFF	ON	ON
11	Auto YC det	OFF	ON	ON
12	Auto comb det	OFF	ON	ON
13	AV2 Available	OFF	ON	ON
14	AV3 Available	OFF	ON	ON
15	AV4 Available	OFF	ON	ON
16	AV3 Fr & rear	OFF	ON	OFF
17	SECAM Tape	OFF	ON	OFF
18	AV1 Sound Mute	OFF	ON	OFF

Table.4-2

Feature Setting

Feature setting				
No	Descr	Min	Max	Data
1	PAP	OFF	ON	ON
2	PAT	OFF	ON	ON
3	INDEX	OFF	ON	ON
4	EPG	OFF	ON	ON
5	FULL EPG	OFF	ON	ON

Table.4-3

Device Register Setting

Backend
Deflection
Ext Deflection
Dynamic Convergence
Colour Decoder 1
Colour Decoder 2
Audio / Video Switch
Mid - X
External PLL Mid - X
Panorama Chip
Autowide
Sound

Table.4-4

Audio / Video Switch					
No	Descr	Def	Min	Max	Data
1	CVOUT1	0	0	9	0
2	CVOUT2	2	0	9	2
3	GD1 SW	ON	OFF	ON	ON
4	GD2 SW	ON	OFF	ON	ON
5	YCOU T 1	0	0	7	0
6	YCOU T 2	1	0	7	1
7	LO0CTRL	OFF	OFF	ON	OFF
8	LO1CTRL	OFF	OFF	ON	OFF
9	AOUT 1	3	0	7	3
10	AOUT 2	3	0	7	3
11	AOUT 3MUTE	OFF	OFF	ON	OFF
12	ZCD SW	ON	OFF	ON	ON
13	AOUT 3	3	0	7	3
14	GROUP DEL	15	0	31	15
15	AOUT3 L/R	0	0	3	0
16	AOUT3VOL F	0	0	7	0
17	AOUT3VOL C	3	0	7	3
18	SYNC1	1	0	1	1
19	SYNC2	1	0	1	1

Table.4-5

Special Adjustment				
No	Descr	Min	Max	Data
1	RGB level	0	7	0
2	RGB Gain	0	31	8
3	RGB PatLevel	0	7	0
4	RGB Patgain	0	31	15
5	Extra Fw	0	255	255
6	EPG Chks Check	OFF	ON	ON
7	Slicer High	OFF	ON	ON
8	FCW Wide	OFF	ON	ON
9	Mpeg NR	OFF	ON	OFF
10	Notch Filter	OFF	ON	OFF
11	NLD Step	-7	0	-1
12	PKD Step	-15	0	-5
13	CRD Step	0	15	7
14	SHP Step	-10	0	-3
15	COL Step	-10	0	-1
16	SHP gain Step	-5	0	0
17	VM level Step	-3	0	0
18	NTSC Auto YC AV2	OFF	ON	OFF
19	NTSC Auto YC AV3	OFF	ON	OFF

Table.4-6

Backend					
No	Descr	Def	Min	Max	Data
1	R-on	ON	OFF	ON	ON
2	G-on	ON	OFF	ON	ON
3	B-on	ON	OFF	ON	ON
4	D-col	OFF	OFF	ON	OFF
5	Color-axis	2	0	3	2
6	Contrast	40	0	63	40
7	Limit-Lvl	3	0	3	3
8	Hue	32	0	63	32
9	Colour	31	0	63	31
10	CTI-Level	2	0	3	2
11	Brightness	31	0	63	31
12	Gamma	3	0	3	3
13	Sharpness	30	0	63	28
14	R-Drive	41	0	63	41
15	G-Drive	41	0	63	37
16	B-Drive	41	0	63	25
17	ABL-Mode	0	0	3	2
18	Sub Bright	31	0	63	21
19	VM-Level	2	0	3	1
20	R-Cutoff	31	0	63	31
21	Preover	2	0	3	2
22	G-Cutoff	31	0	63	20
23	DPIC-Level	1	0	3	2
24	B-Cutoff	31	0	63	12
25	DC-Tran	0	0	3	1
26	Sub-Cont	7	0	15	8
27	LRGB2-Lvl	8	0	15	8
28	P-Abl	15	0	15	15
29	Sharp.Fo	ON	OFF	ON	ON
30	Aging-W	OFF	OFF	ON	OFF
31	Aging-B	OFF	OFF	ON	OFF
32	CB-offset1	11	0	15	11
33	CR-offset1	11	0	15	11
34	CB-offset2	7	0	15	7
35	CR-offset2	7	0	15	7
36	Sub Color	0	-8	8	-5

Table.4-7

Colour Decoder 1					
No	Descr	Def	Min	Max	Data
1	Tint	31	0	63	31
2	P/N Gw	OFF	OFF	ON	OFF
3	P/N ID	OFF	OFF	ON	OFF
4	Sub Colour	7	0	15	7
5	Sub Contr	8	0	15	8
6	Sharp FO	1	0	3	1
7	Sharp EQ	2	0	3	2
8	Sharp Gain	8	0	15	8
9	Y-Out Lev	35	0	63	35
10	BS Point	0	0	3	0
11	C-Out Lev	45	0	63	45
12	DC Rest	0	0	3	0
13	BPF FO	2	0	3	2
14	BPF Q	1	0	3	1
15	Filter Sw	OFF	OFF	ON	OFF

Table.4-8

Colour Decoder 1 (cont)					
No	Descr	Def	Min	Max	Data
16	C-Trap Sw	0	0	1	0
17	S-D Trap	ON	OFF	ON	ON
18	LPF	ON	OFF	ON	ON
19	Y-DL	8	0	10	8
20	N-Comb	ON	OFF	ON	ON
21	Video Sel	0	0	15	0
22	RGB Sel	0	0	3	0
23	Halftone	OFF	OFF	ON	OFF
24	CrOFF.1	7	0	15	11
25	CbOFF.1	7	0	15	11
26	CrOFF.2	7	0	15	7
27	CbOFF.2	7	0	15	7
28	VCD Freq	3	0	7	3
29	VCD Mode	0	0	3	0
30	AFC SENS	1	0	3	1
31	MVM	OFF	OFF	ON	OFF
32	S-R-Y Adj	4	0	15	6
33	S-B-Y Adj	6	0	15	4
34	BELL/HPF	2	0	3	2
35	BELL FO	OFF	OFF	ON	OFF
36	S-GP	0	0	3	0
37	S ID	OFF	OFF	ON	OFF
38	RGB1 ENB	OFF	OFF	ON	OFF
39	HS-PH	1	0	1	0
40	Auto SW	1	0	1	1
41	VP_PH	0	0	1	0
42	S/N RATIO	3	0	3	3

Table.4-9

Dynamic Convergence					
No	Descr	Def	Min	Max	Data
1	Range	63	0	63	63
2	V Stat	32	0	63	14
3	H Stat	33	0	63	43
4	H amp L	37	0	63	33
5	H amp R	36	0	63	33
6	Up Y	31	0	63	57
7	Low Y	33	0	63	31
8	Y up L	30	0	63	56
9	Y up R	30	0	63	31
10	Y low L	31	0	63	58
11	Y low R	30	0	63	45
12	Mbow Up L	31	0	63	31
13	Mbow Up R	32	0	63	31
14	Mbow Low L	32	0	63	31
15	Mbow Low R	32	0	63	31
16	T Cor PCtrl	OFF	OFF	ON	OFF
17	Top Cor Pin	31	0	63	31
18	B Cor PCtrl	OFF	OFF	ON	OFF
19	Bot Cor Pin	43	0	63	31

Table.4-10

Sound					
No	Descr	Def	Min	Max	Data
1	Ref.Level	40	0	20	40
2	Auto-gain	ON	OFF	ON	ON
3	Ana-in	0	0	1	0
4	Carr-mute	ON	OFF	ON	ON
5	Clock out	ON	OFF	ON	ON
6	AM-gain	ON	OFF	ON	ON
7	Clip mode	0	0	2	0
8	SCART1 Vol	79	0	127	79
9	SCART2 Vol	79	0	127	79
10	SCART Pr	27	0	127	27
11	I2S1-pr	16	0	127	16
12	I2S2-pr	16	0	127	16
13	FM pr	27	0	127	27
14	BG Nic-pr	53	0	127	53
15	L Nic-pr	59	0	127	59
16	DK Nic-pr	53	0	127	53
17	I Nic-pr	97	0	127	97
18	Irl Nic-pr	97	0	127	97
19	AVC-Decay	2	0	8	2
20	SubW-vol	-4	-127	0	-4
21	SubW-freq	20	5	40	20
22	SubW-HPass	OFF	OFF	ON	OFF
23	Spat-stre	+127	0	-1	127
24	Spat-Coeff	0	0	8	0
25	Bass offs	0	-3	+3	0
26	Treble offs	-1	-3	+3	-1
27	Loudn offs	0	0	9	0
28	Hp-Voloffs	-2	-5	+5	-2
29	M-S Limit	+30	-128	+127	30
30	M-B Limit	-30	-128	+127	-30
31	S-M Limit	+12	-128	+127	12
32	S-B Limit	-20	-128	+127	-20
33	B-M Limit	-12	-128	+127	-12
34	B-S Limit	+20	-128	+127	20
35	Err.Max	40	0	255	40
36	Err.Min	14	0	255	18
37	Vol.Offset	-4	-6	0	-4

Table.4-11

Ext. Deflection					
No	Descr	Def	Min	Max	Data
1	Linearity	127	0	255	127
2	H Centre	31	0	63	31
3	H Trap	31	0	63	31
4	Rotation	0	0	255	0
5	FocusPhase	127	0	255	127

Table.4-12

Deflection					
No	Descr	Def	Min	Max	Data
1	V-Size	31	0	63	39
2	V-Position	31	0	63	38
3	V-Comp	0	0	3	0
4	V-Linear	7	0	15	8
5	S-Corr	7	0	15	8
6	H-Size	31	0	63	48
7	EW-DC	OFF	OFF	ON	OFF
8	Akb Tim2	OFF	OFF	ON	OFF
9	Pin-Amp	31	0	63	36
10	H-Comp	0	0	3	0
11	Up-Cpin	31	0	63	30
12	M-Pin	2	0	3	2
13	Lo-CPin	31	0	63	33
14	Trapezium	7	0	15	6
15	H-Position	22	0	63	31
16	VblKw	0	0	3	0
17	AFC-Bow	7	0	15	8
18	AFC-Angle	7	0	15	8
19	Left-Blk	52	0	63	52
20	Right-Blk	11	0	63	11
21	V-Freerun	0	0	3	0
22	V-Aspect	0	0	63	0
23	Zoom-Sw	OFF	OFF	ON	OFF
24	U-Scan	OFF	OFF	ON	OFF
25	V-Scroll	31	0	63	31
26	Akb-Tim	2	0	3	2
27	Up-Vlin	0	0	15	0
28	Lo-Vlin	0	0	15	0

Table.4-13

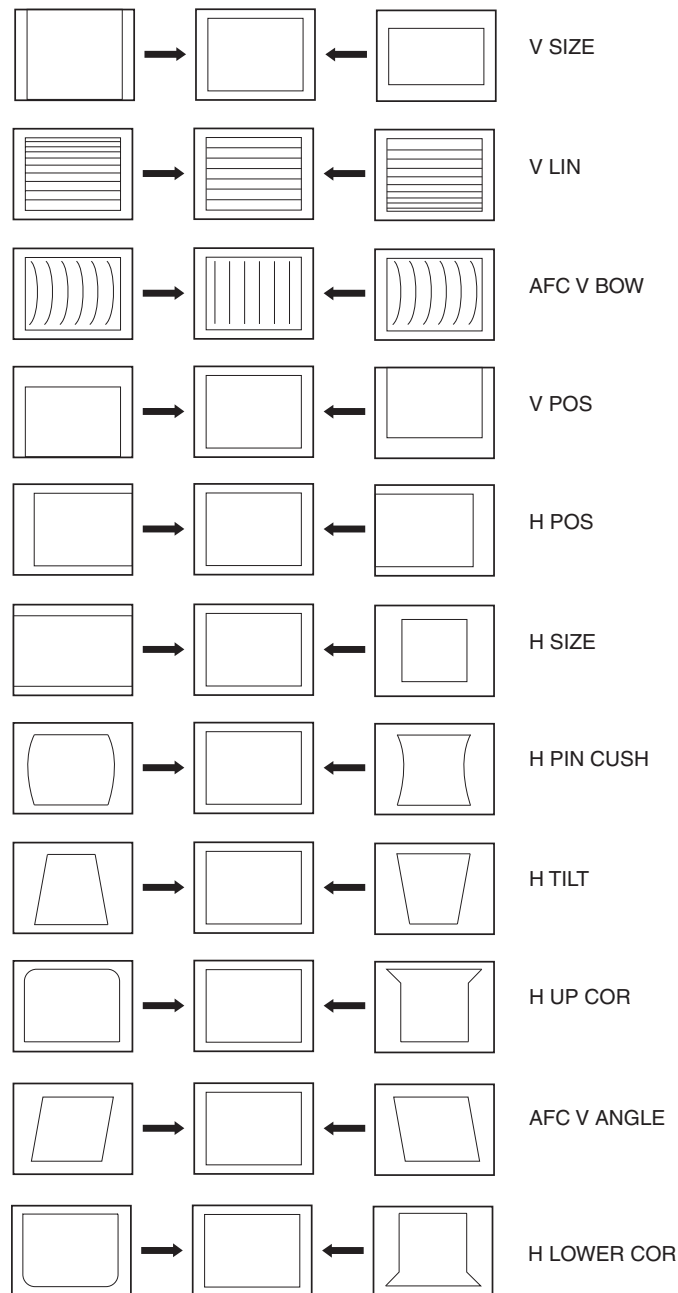
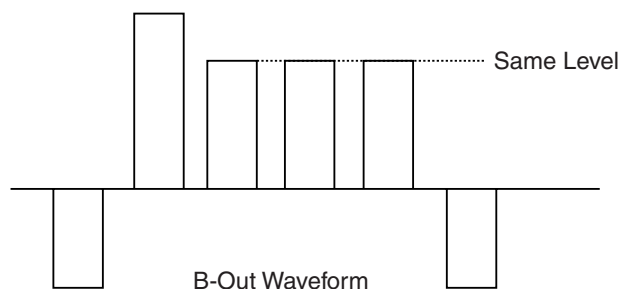
Deflection System Adjustment

1. Enter into the service mode and select 'Deflection' from the menu. The 'Deflection' adjustment menu will be displayed.
2. Select and adjust each item to obtain the optimum image.

4-2. Volume Electrical Adjustments

Sub Colour Adjustment

1. Input a PAL colour bar signal.
2. Connect an oscilloscope to CN5400 pin 5 located on the C Board.
3. Enter into the 'Service Mode'.
4. Choose 'Backend' from the menu.
5. Adjust 'Sub Colour' data so that the right sides of the waveform are of equal height.



4-3. TEST MODE 2:

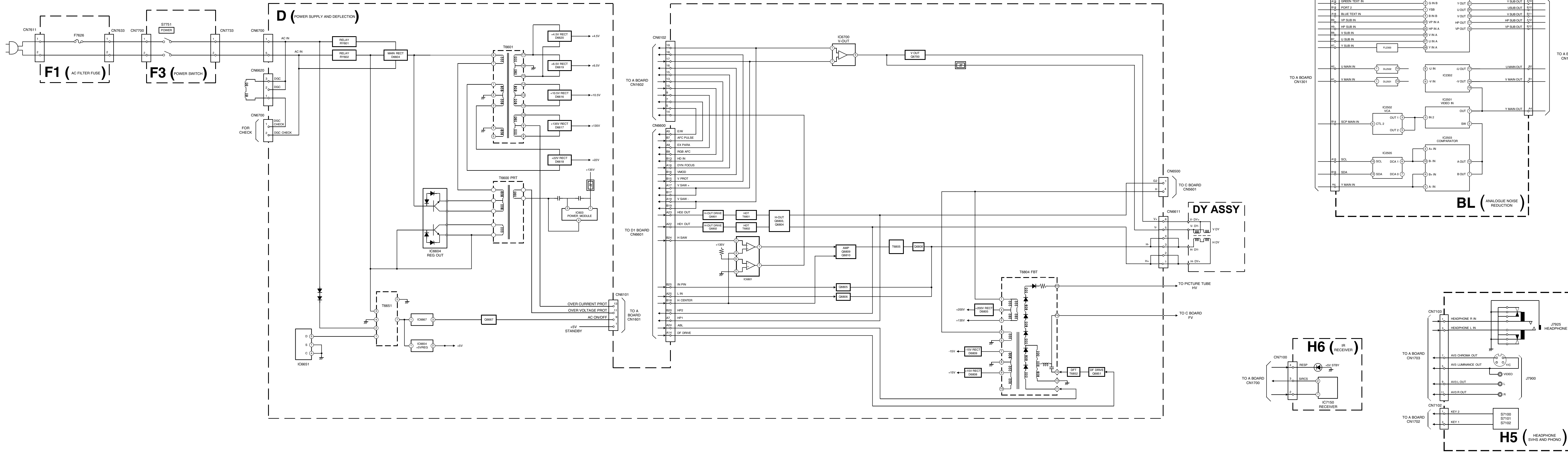
Is available by pressing the 'TEST' button twice, OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release the 'Test mode 2', press 0, 10, 20 ... twice or switch the TV set into Stand-by mode. Pressing the two Local Control buttons (+ and -) during power ON will also switch into 'TT' mode.

In 'TT' mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the Menu to reappear. The function is kept even when the menu is not displayed on screen !!.

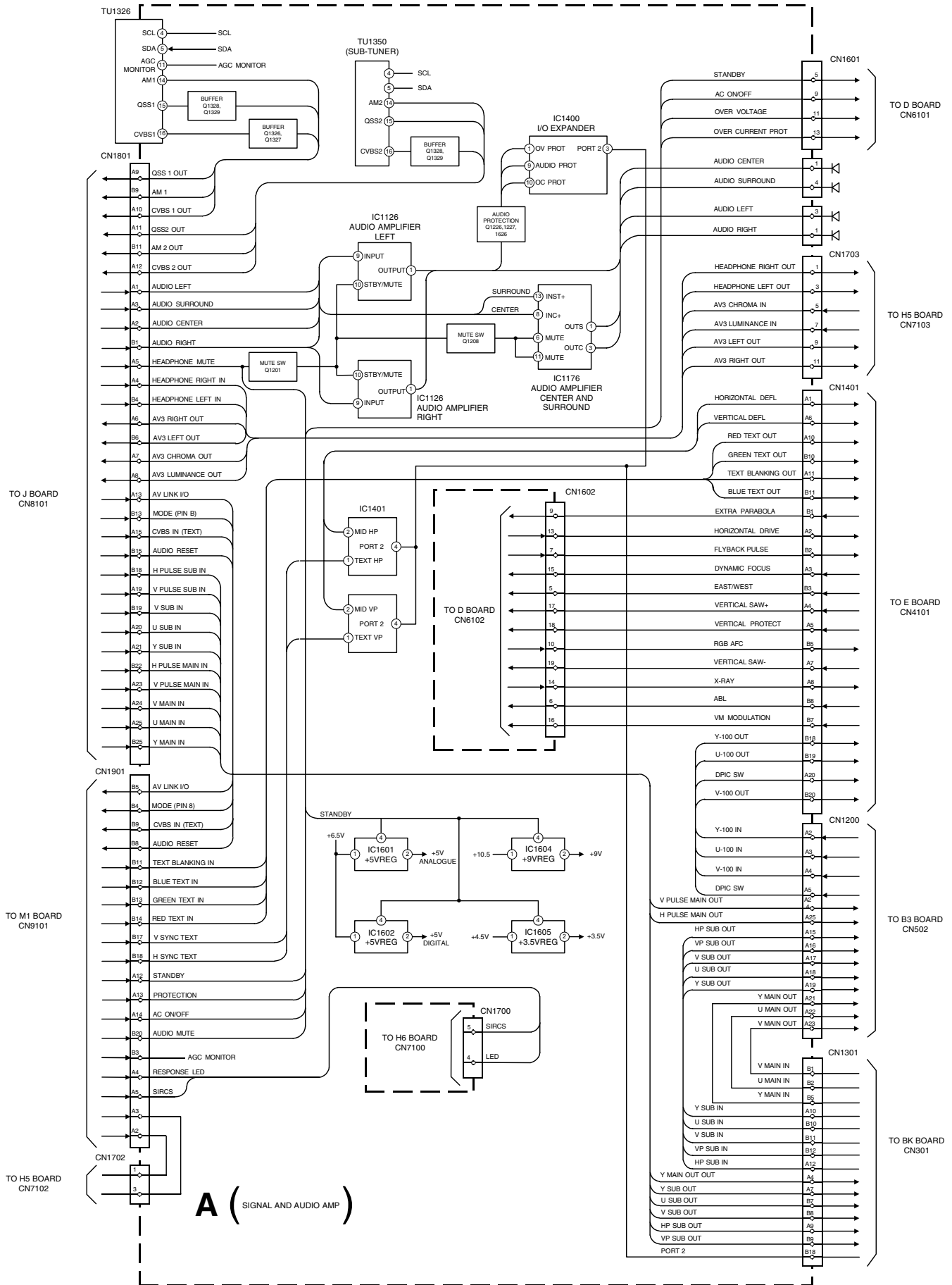
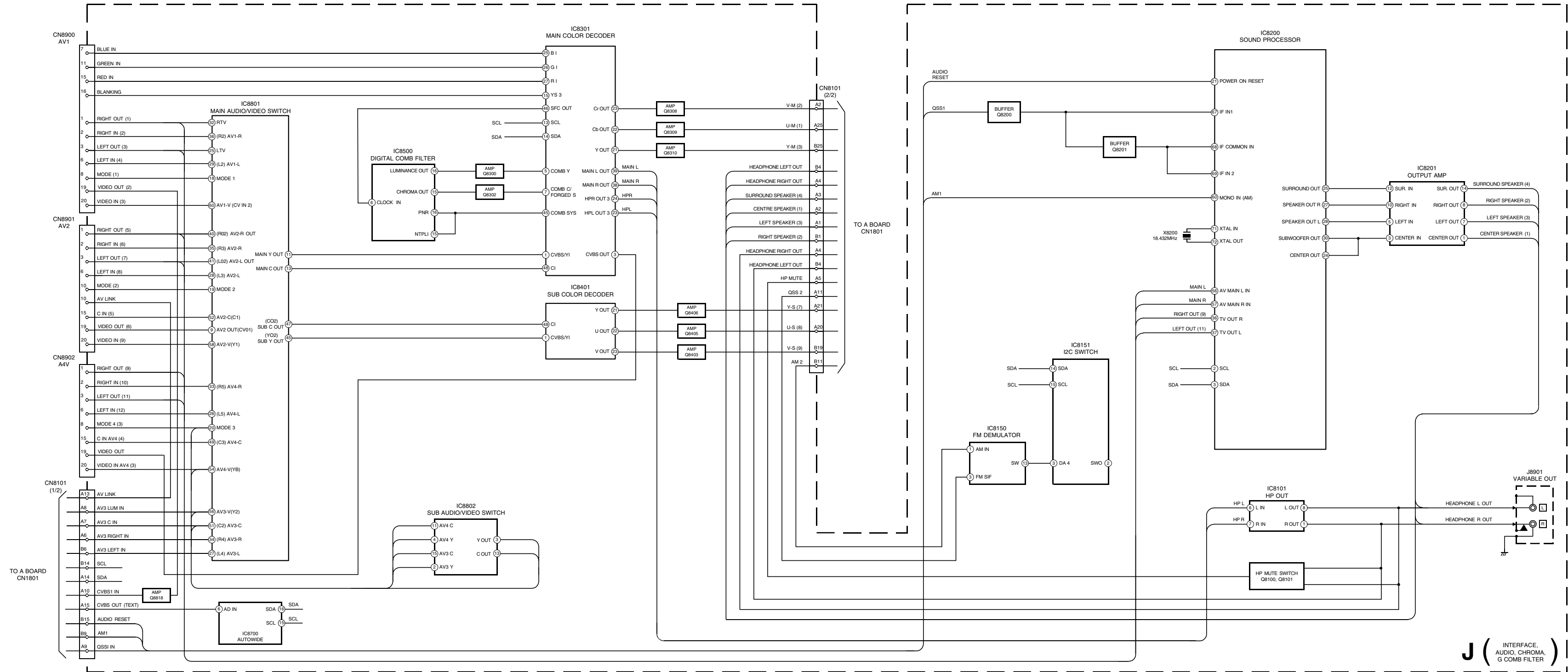
00	'TT' mode off
01	Picture maximum
02	Picture minimum
03	Set speaker/headphone Volume to 30%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing mode
08	Shipping Condition
10	No function
11	Sub picture adjustment
12	Sub colour adjustment
13	Display software version and TV set configuration
14	Production Info Display
15	Picture Rotation
16	Picture level 50%
17	Audio mute on
18	No function
19	Sub brightness adjustment
20	No function
21	Destination A includes text settings, display TV status
22	Destination L includes text settings, display TV status
23	Destination E includes text settings, display TV status
24	Destination U includes text settings, display TV status
25	Destination D includes text settings, display TV status
26	Destination B includes text settings, display TV status
27	Destination K includes text settings, display TV status
28	Destination R includes text settings, display TV status
30	No function
31	Geometry Adjustment 1
32	Geometry Adjustment 2
33	Error monitor
34	No function
35	CRT 4:3 <> 16:9 ; Display TV status
36	Line 23 detection switch
37	Velocity Modulation (VM) test
38	No function
39	No function
40	No function
41	Screen mode check
42	Re-initialise geometry
43	No function
44	No function
45	No function
46	Reserved for dealer commander
47	Re-initialise NVM
48	Set NVM as non virgin
49	Set NVM as virgin
50	No function
51	Set Dolby volume to 90%
52	Dolby on left speaker only
53	Dolby on right speaker only

54	Dolby on left centre only
55	Dolby on surround speaker only
60	No function
61	Service mode
62	Production mode
63	Copy the picture reset data from ROM into the picture reset location of NVM
64	Copy the actual adj picture data from NVM to reset location of NVM
65	Reset error codes
68	Ignore error on
69	Ignore errors off
70	No function
71	Copy default dates of PANORAMA chip and external PLL from ROM into NVM
72	No function
73	Clear all programmes except 1-5 and all station labels
74	Adjustment for PIN Amp/Upper Corner Pin for MID, EPG and 12501 mode
75	Adjustment for Lower Corner Pin/ Trapezoid for MID, EPG and 12501 mode
76	Adjustment for M Pin for 12501 mode
77	Picture Booster check
78	No video blanking
79	No function
80	No function
81	Horizontal adjustment for left picture in PAP mode, text picture in PAT mode and centre picture in INDEX mode. Adjustment is done with left and right joystick button, released by "TV" or "OK" buttons. The corresponding mode must be set before adjustment.
82	Horizontal adjustment for right picture in PAP mode and live picture in PAT mode. Adjustment is done with left and right joystick button, released by "TV" or "OK" buttons. The corresponding mode must be set before adjustment.
83 - 86	No function
87	Personal ID reset
88	Parental Lock off
89	OSD mute on/off
90	No function
91	Focus adjustment (Focus Phase/Ext. Deflection) with left and right joystick button.
92	Focus adjustment (DC Level/Ext. Deflection) with left and right joystick button.
93	Reserved for software group only
94	INDEX mode test command, released by OK or 00
95	Dolby Low Pass Filter ON in surround channel
96	Dolby Low Pass Filter OFF in surround channel
97	No action
98	No action
99	Speaker check, released by OK or 00

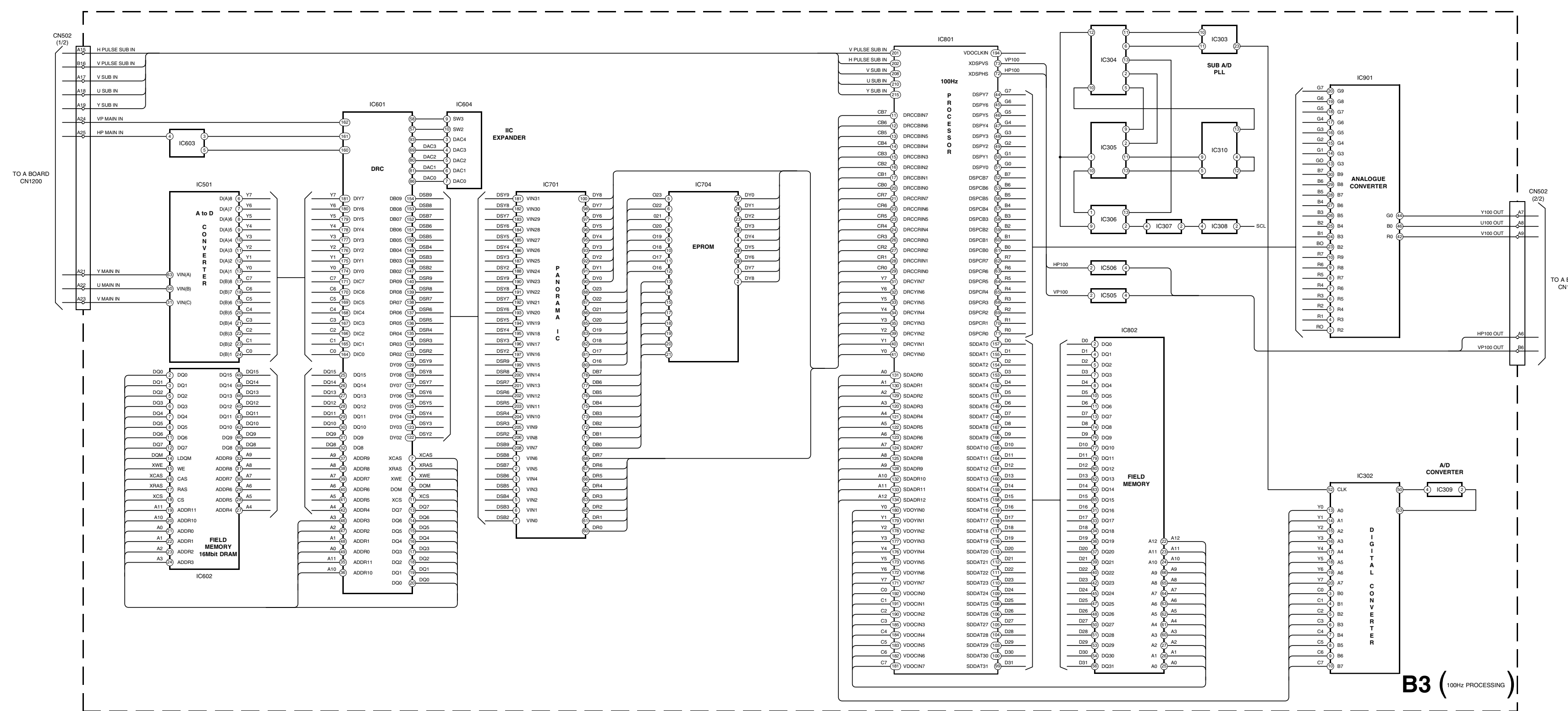
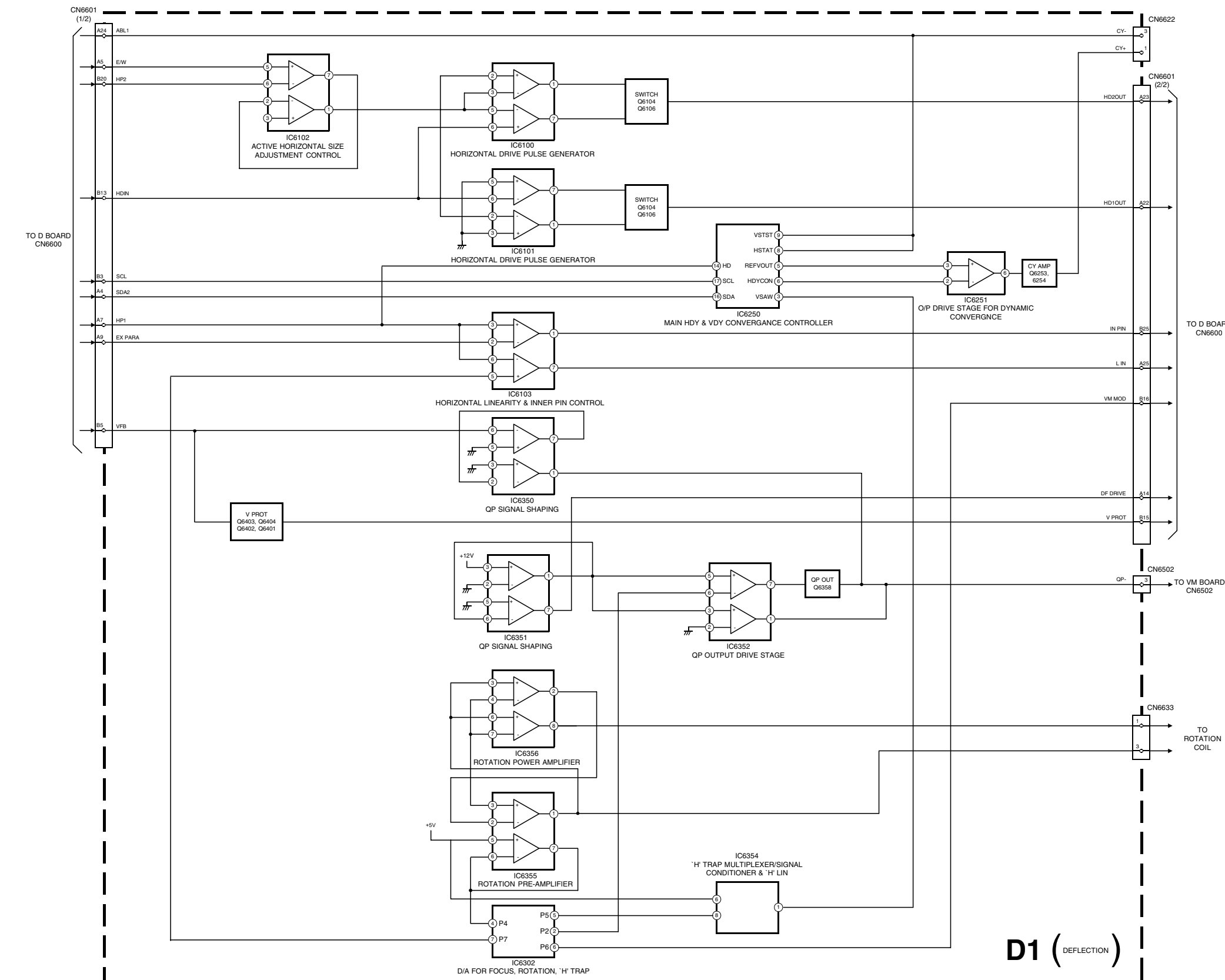
5-1. BLOCK DIAGRAMS (1)



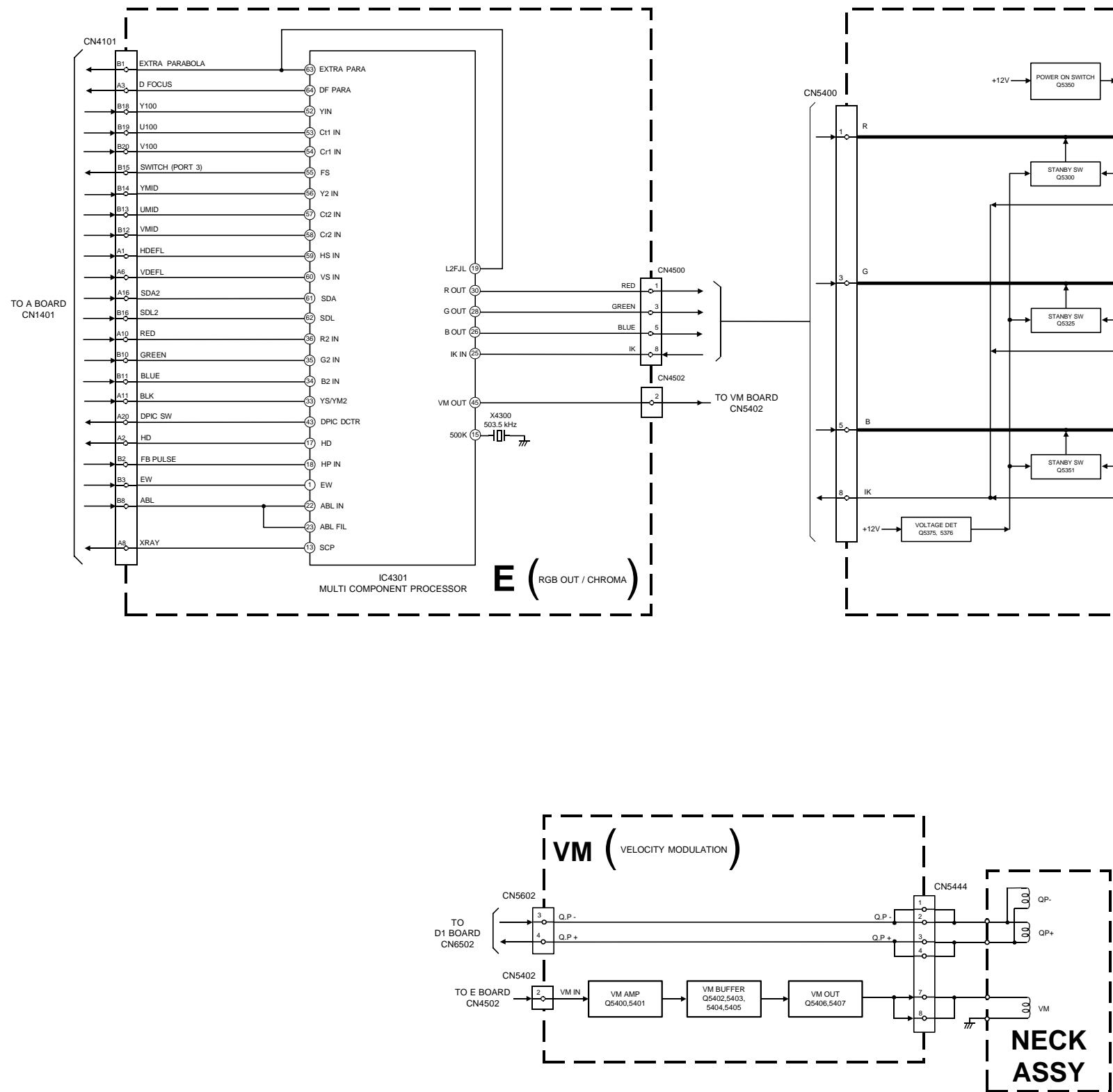
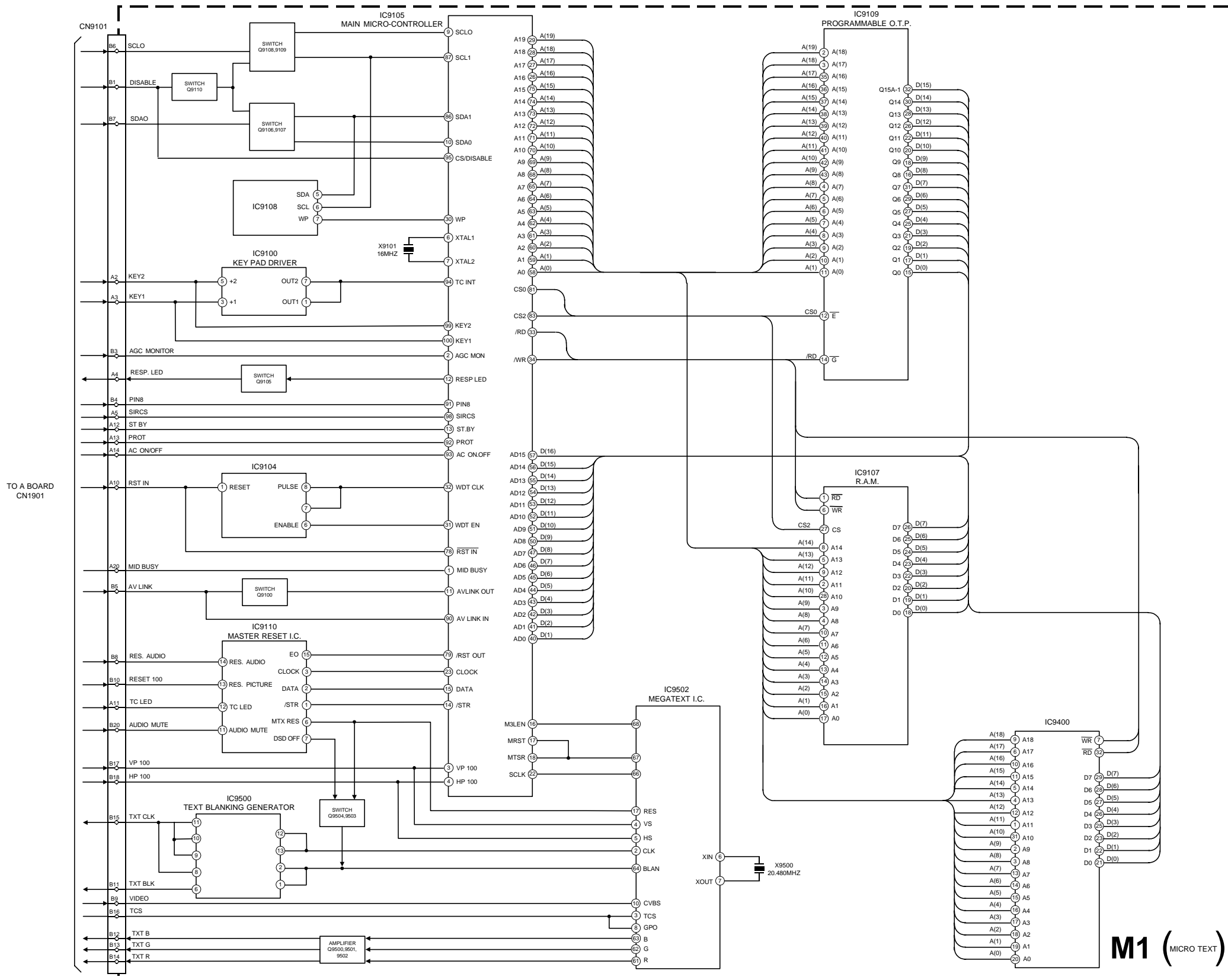
5-1. BLOCK DIAGRAMS (2)



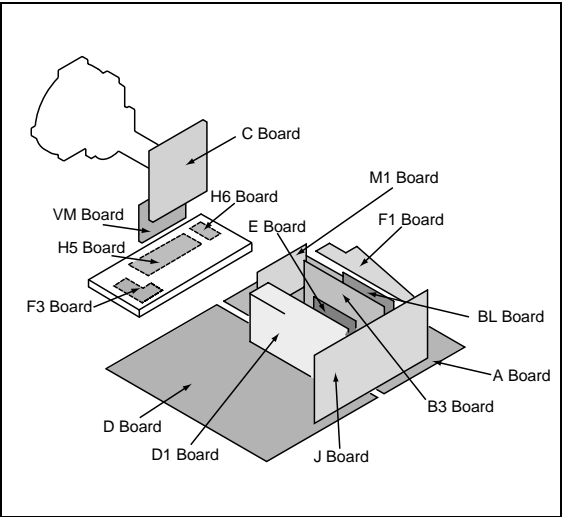
5-1. BLOCK DIAGRAMS (3)



5-1. BLOCK DIAGRAMS (4)



5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- Note :**
- All capacitors are in μF unless otherwise noted.
 - pF : μpF 50WV or less are not indicated except for electrolytic types.
 - Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Electrical power rating : 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms.
 $k = 1000 \text{ ohms}$, $M = 1000,000 \text{ ohms}$
- nonflammable resistor.
- fusible resistor.
- internal component.
- panel designation or adjustment for repair.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital multimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerances.
- B + bus.
- B - bus.
- RF signal path.
- earth - ground.
- earth - chassis.

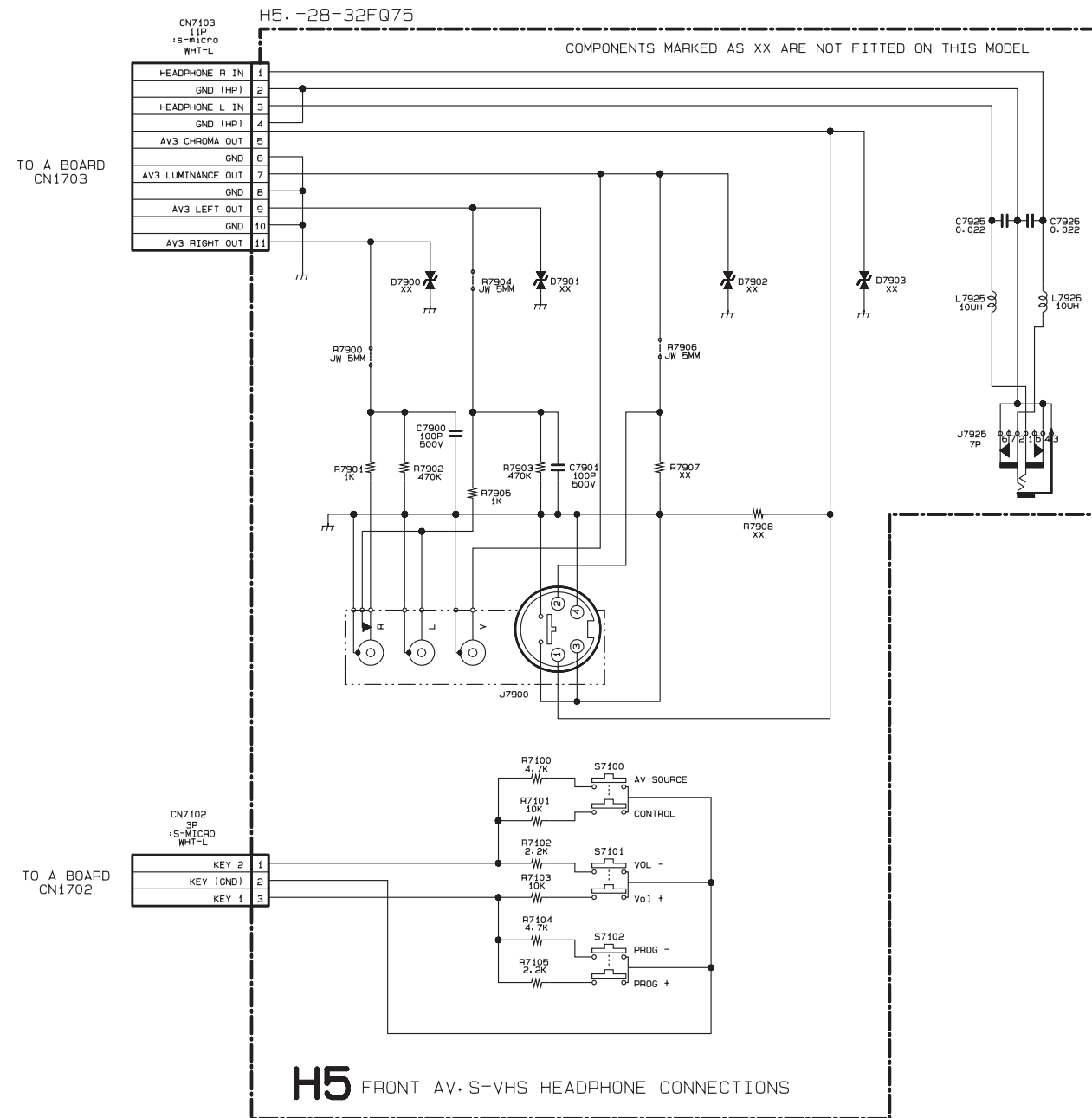
Reference Information

RESISTOR	RN	METAL FILM
	RC	SOLID
	FPRD	NON FLAMMABLE CARBON
	FUSE	NON FLAMMABLE FUSIBLE
	RS	NON FLAMMABLE METAL OXIDE
	RB	NON FLAMMABLE CEMENT
	RW	NON FLAMMABLE WIREWOUND
		ADJUSTMENT RESISTOR
COIL	LF-8L	MICRO INDUCTOR
CAPACITOR	TA	TANTALUM
	PS	STYROL
	PP	POLYPROPYLENE
	PT	MYLAR
	MPS	METALIZED POLYESTER
	MPP	METALIZED POLYPROPYLENE
	ALB	BIPOLAR
	ALT	HIGH TEMPERATURE
	ALR	HIGH RIPPLE

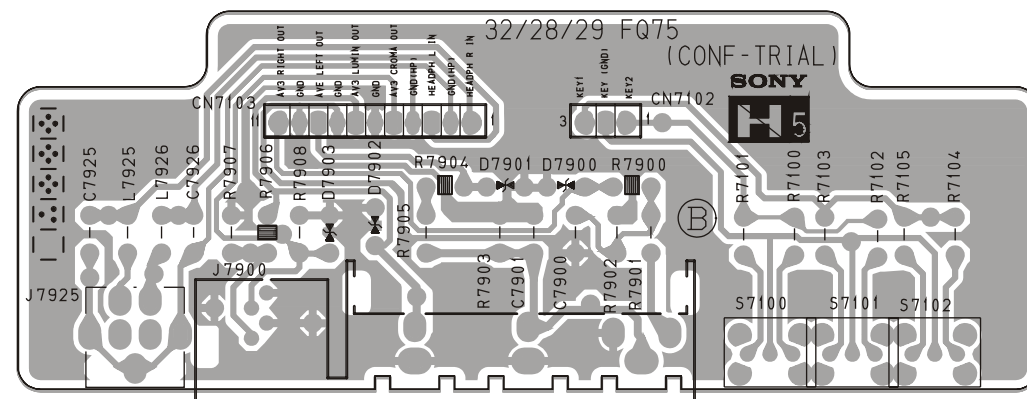
Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

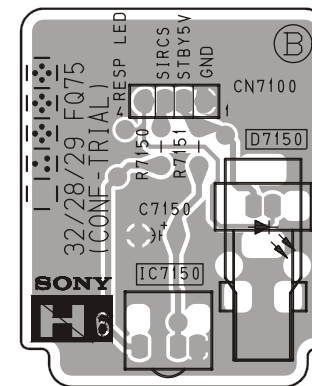
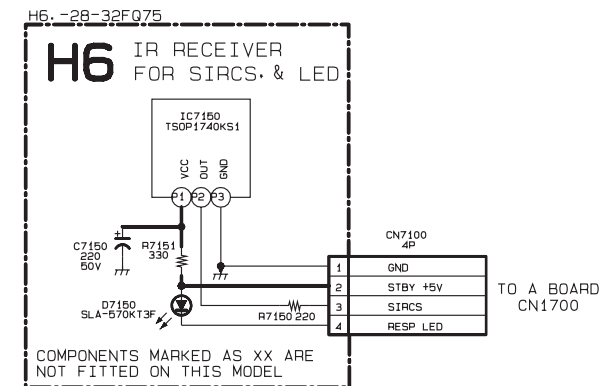
H5[FRONT AV, S-VIDEO]



H5[PRINTED WIRING BOARD]

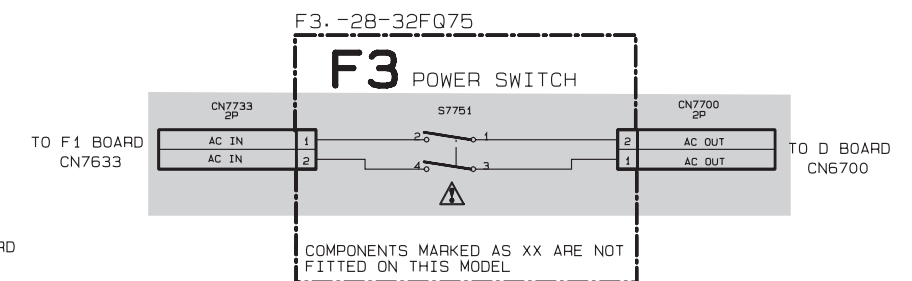


H6[IR RECEIVER FOR SIRCS AND LED]

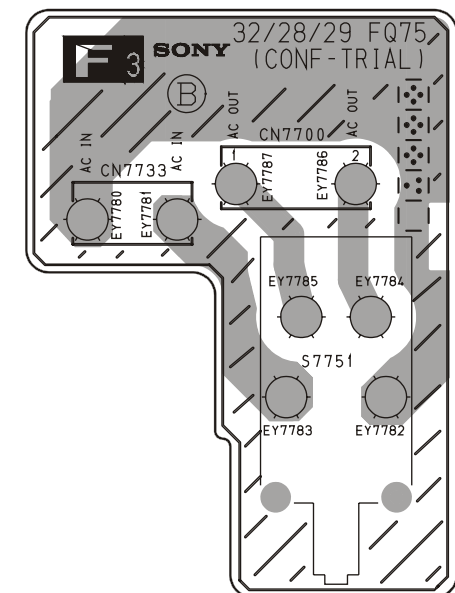


H6[PRINTED WIRING BOARD]

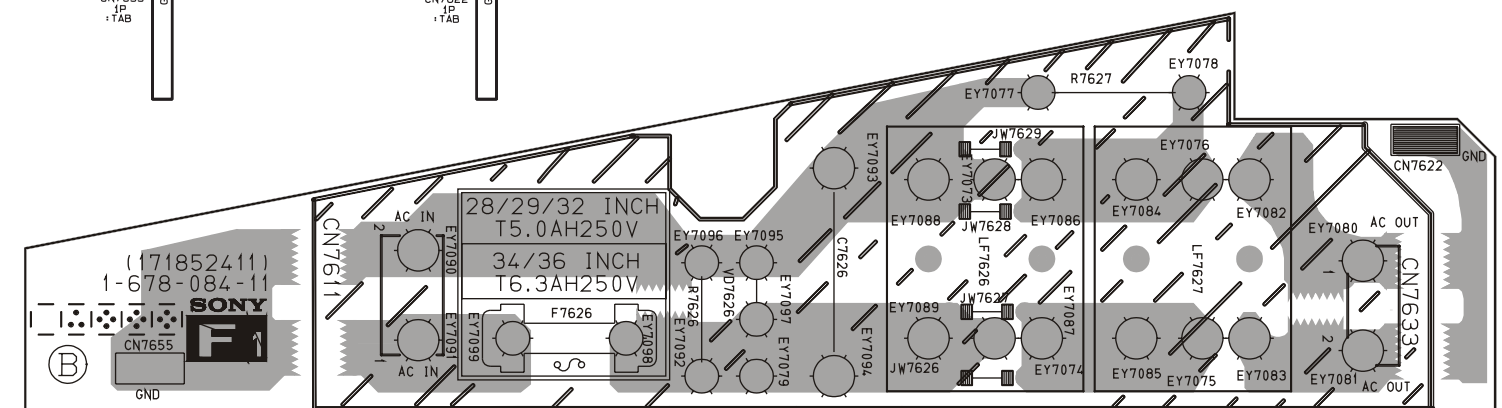
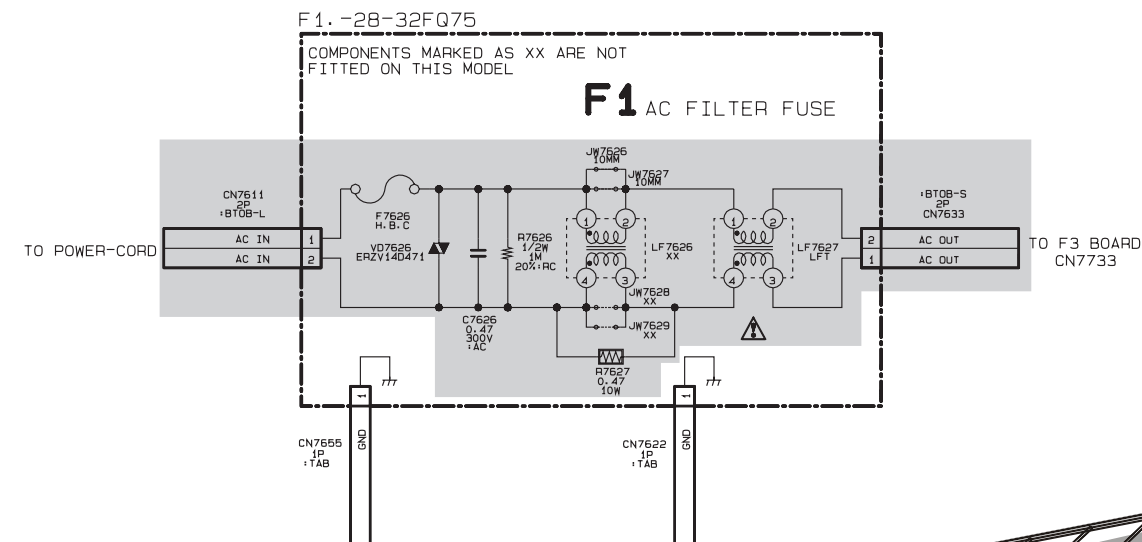
F3 [POWER SWITCH]



F3 [PRINTED WIRING BOARD]



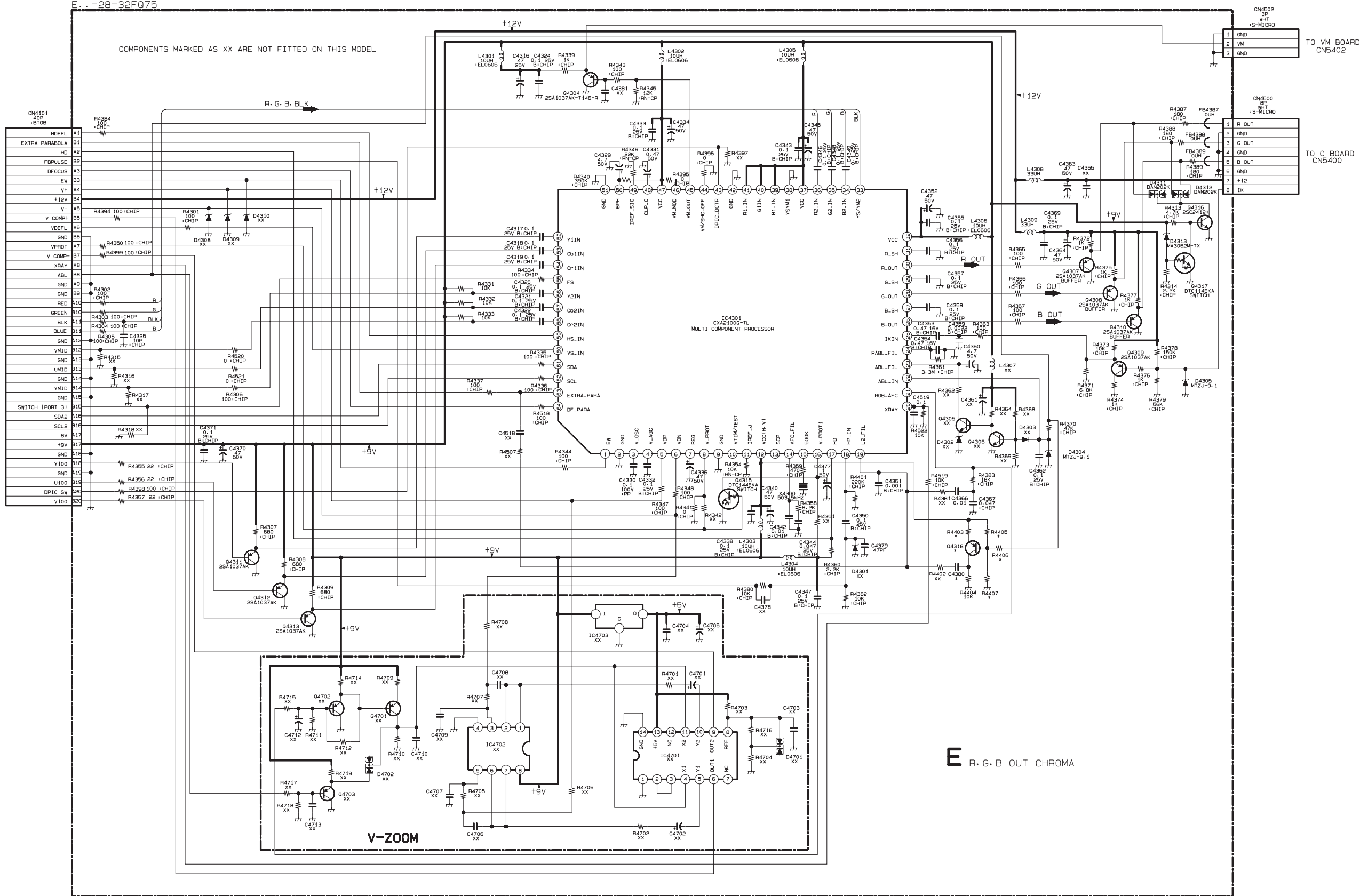
F1 [AC FILTER, FUSE]



F1 [PRINTED WIRING BOARD]

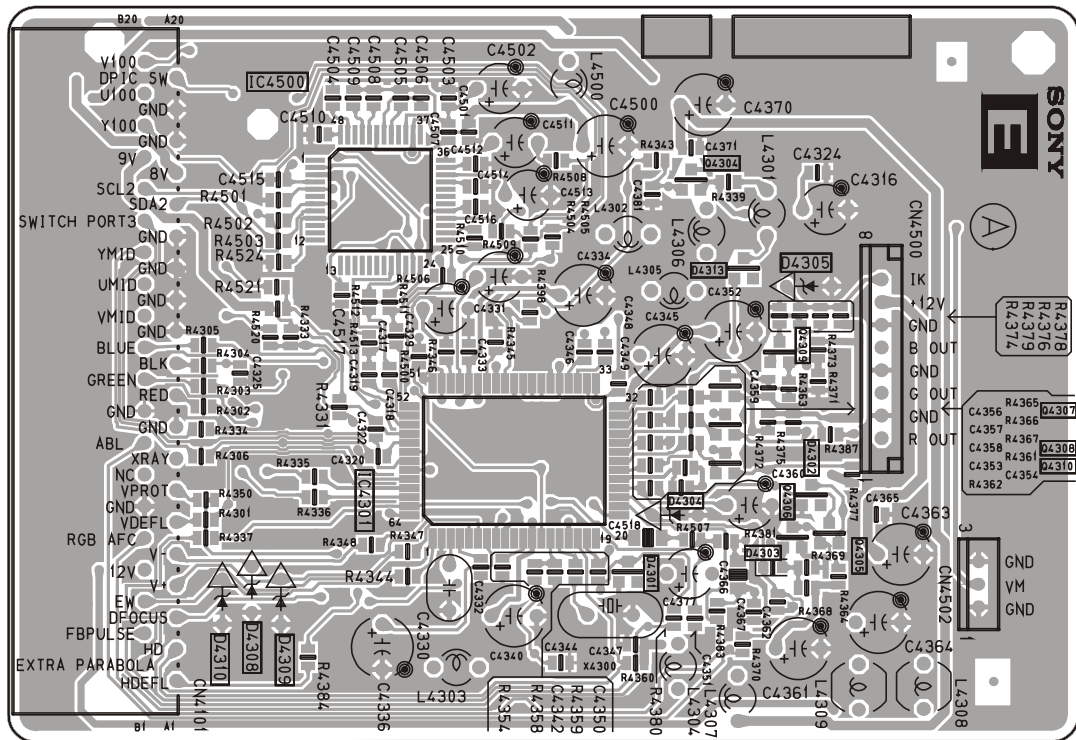
E. -28-32F075

TO A BOARD
CN1401

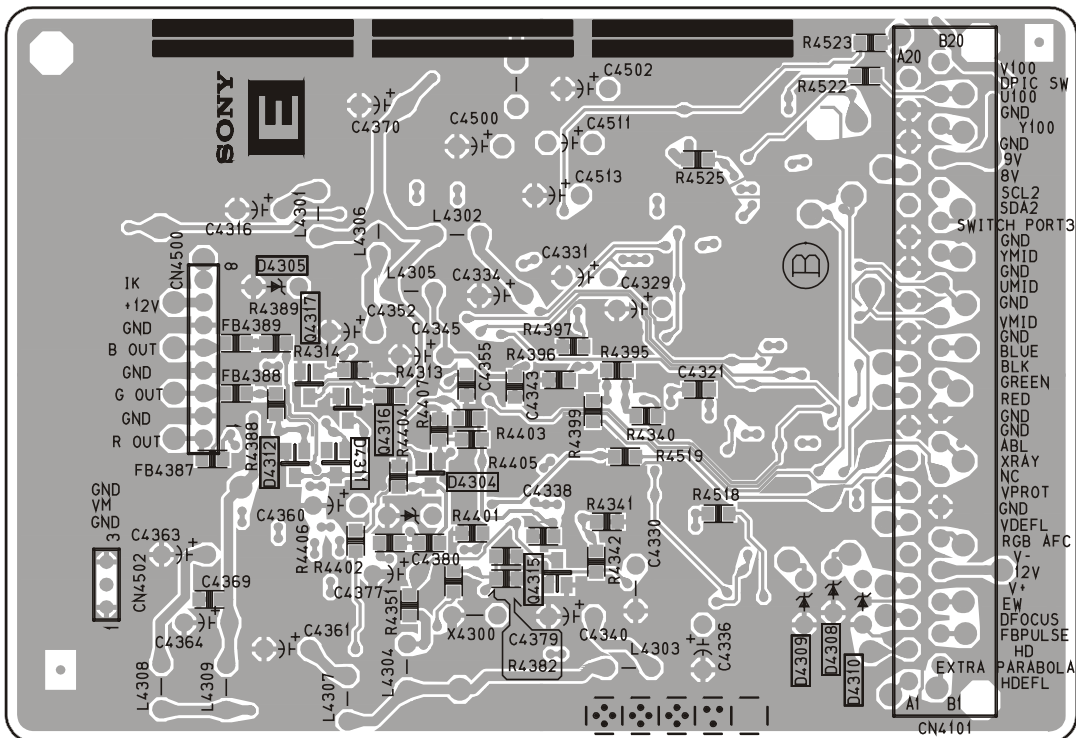


E [R,G,B OUT CHROMA]

E [PRINTED WIRING BOARD (A side)]

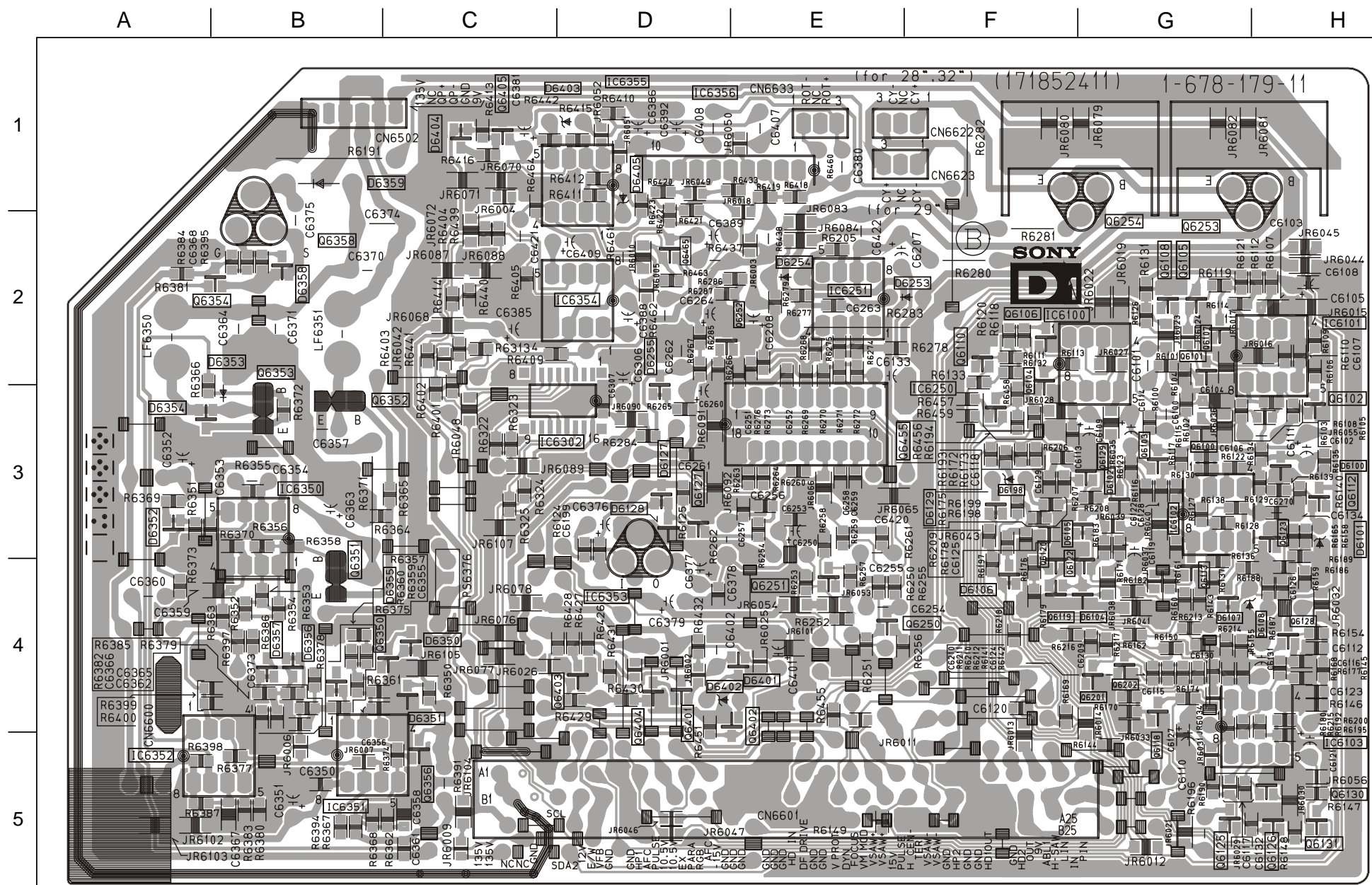


E [PRINTED WIRING BOARD (B side)]

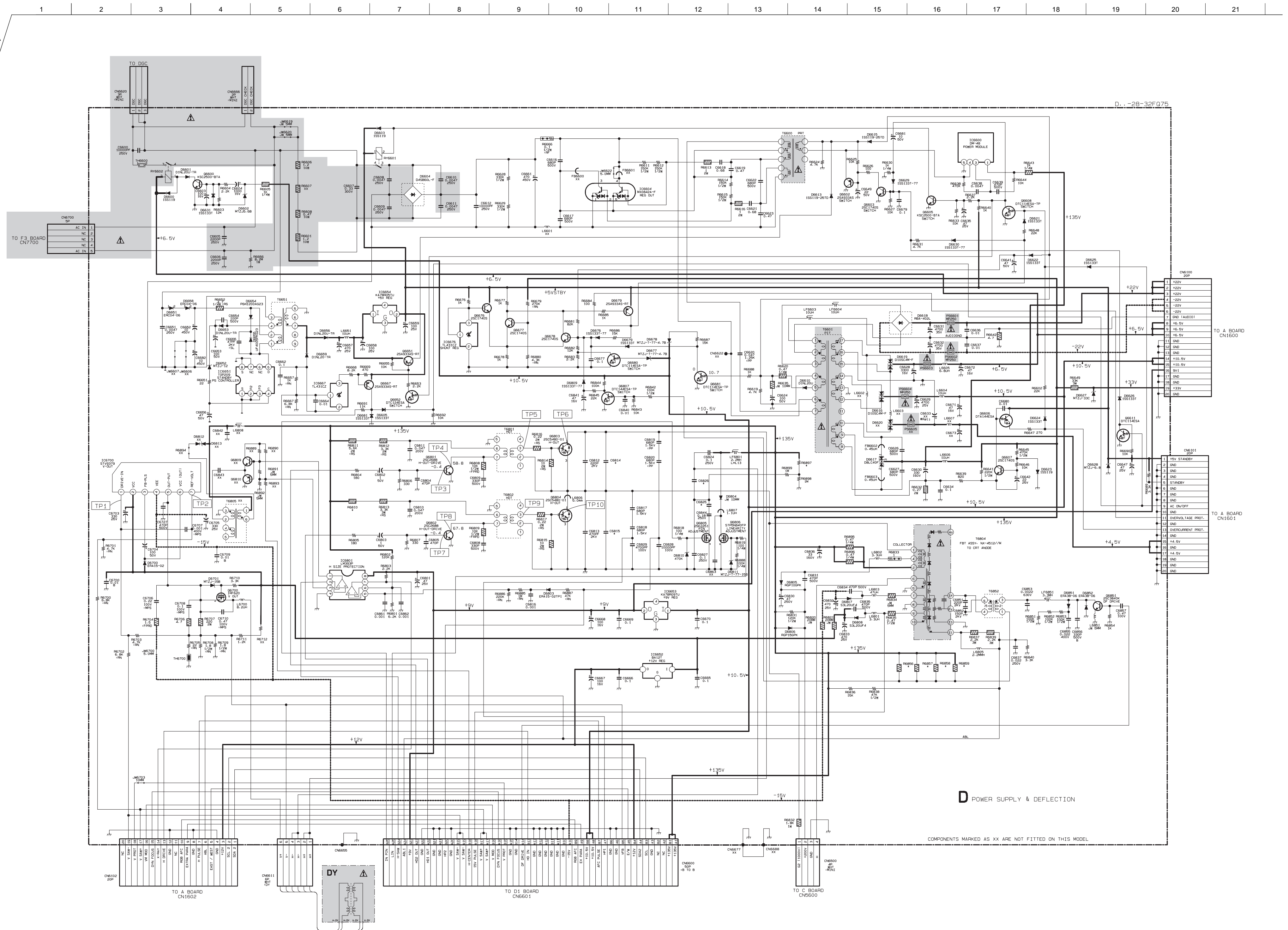




M1 [MICRO PROCESSOR AND TEXT DECODER]



IC	IC6351 B - 5	Q6102 H - 3	Q6113 H - 4	Q6128 H - 4	Q6352 C - 3	Q6405 C - 1	D6127 D - 3	D6354 A - 3
IC6100 G - 2	IC6352 A - 5	Q6103 G - 3	Q6118 G - 5	Q6129 G - 3	Q6353 B - 3	Q6455 F - 3	D6128 D - 3	D6355 C - 4
IC6101 H - 2	IC6353 D - 4	Q6104 F - 3	Q6119 G - 4	Q6201 G - 4	Q6354 B - 2	Q6465 D - 2	D6129 F - 3	D6358 B - 2
IC6102 G - 3	IC6354 D - 2	Q6105 G - 2	Q6120 G - 4	Q6202 G - 4	Q6356 B - 5	DIODE	D6253 F - 2	D6359 C - 1
IC6103 H - 5	IC6355 D - 1	Q6106 F - 2	Q6122 G - 4	Q6250 F - 4	Q6358 B - 2		D6255 D - 2	D6401 E - 4
IC6250 F - 3	IC6356 E - 1	Q6107 H - 2	Q6123 H - 3	Q6251 E - 4	Q6401 D - 5	D6102 G - 3	D6350 C - 4	D6402 E - 4
IC6251 D - 2	TRANSISTOR	Q6108 G - 2	Q6125 H - 5	Q6252 E - 2	Q6402 E - 5	D6105 G - 3	D6351 C - 5	D6403 D - 1
IC6302 D - 3		Q6110 F - 2	Q6126 H - 5	Q6350 C - 4	Q6403 D - 4	D6107 H - 4	D6352 A - 3	D6404 C - 1
IC6350 B - 3	Q6101 G - 2	Q6112 H - 3	Q6127 D - 3	Q6351 B - 5	Q6404 D - 5	D6108 H - 4	D6353 B - 2	D6405 D - 1





IC Voltage Table

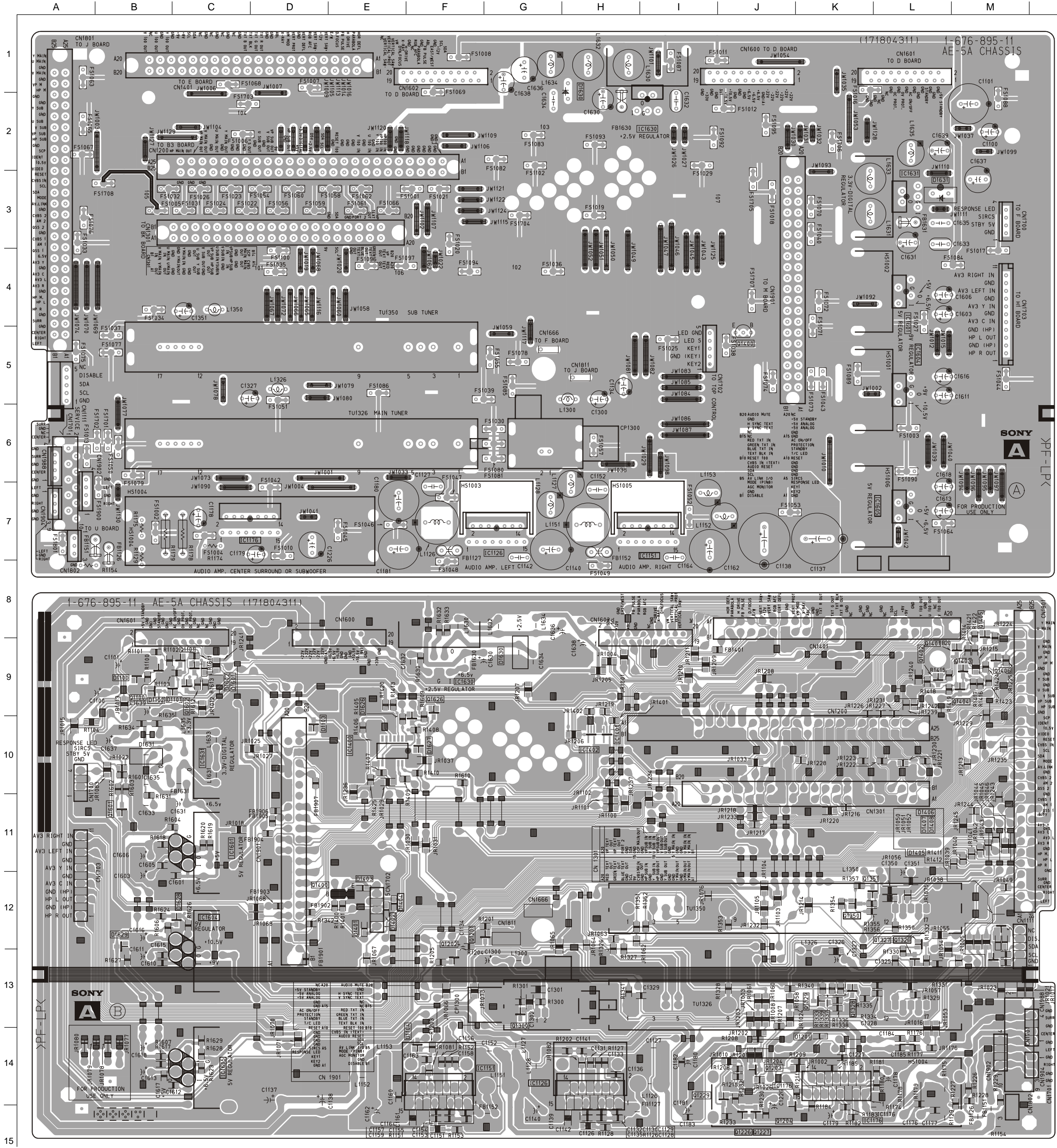
IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC1126	1	0
	2	-11
	3	10
	6	-19
	9	0
	10	4.1
IC1151	12	-11
	1	0
	2	-11
	3	10
	6	-18
	9	0
IC1400	10	4.1
	12	-11
	1	0
	3	4.6
	5	4.6
	6	4.0
IC1400	9	0
	10	0
	14	4.5
	15	4.5
IC1176	1	0
	3	3
	6	3
	7	0
	8	0
	9	0
IC1176	11	3
	12	0
	13	0
	14	0
	14	0
	14	0

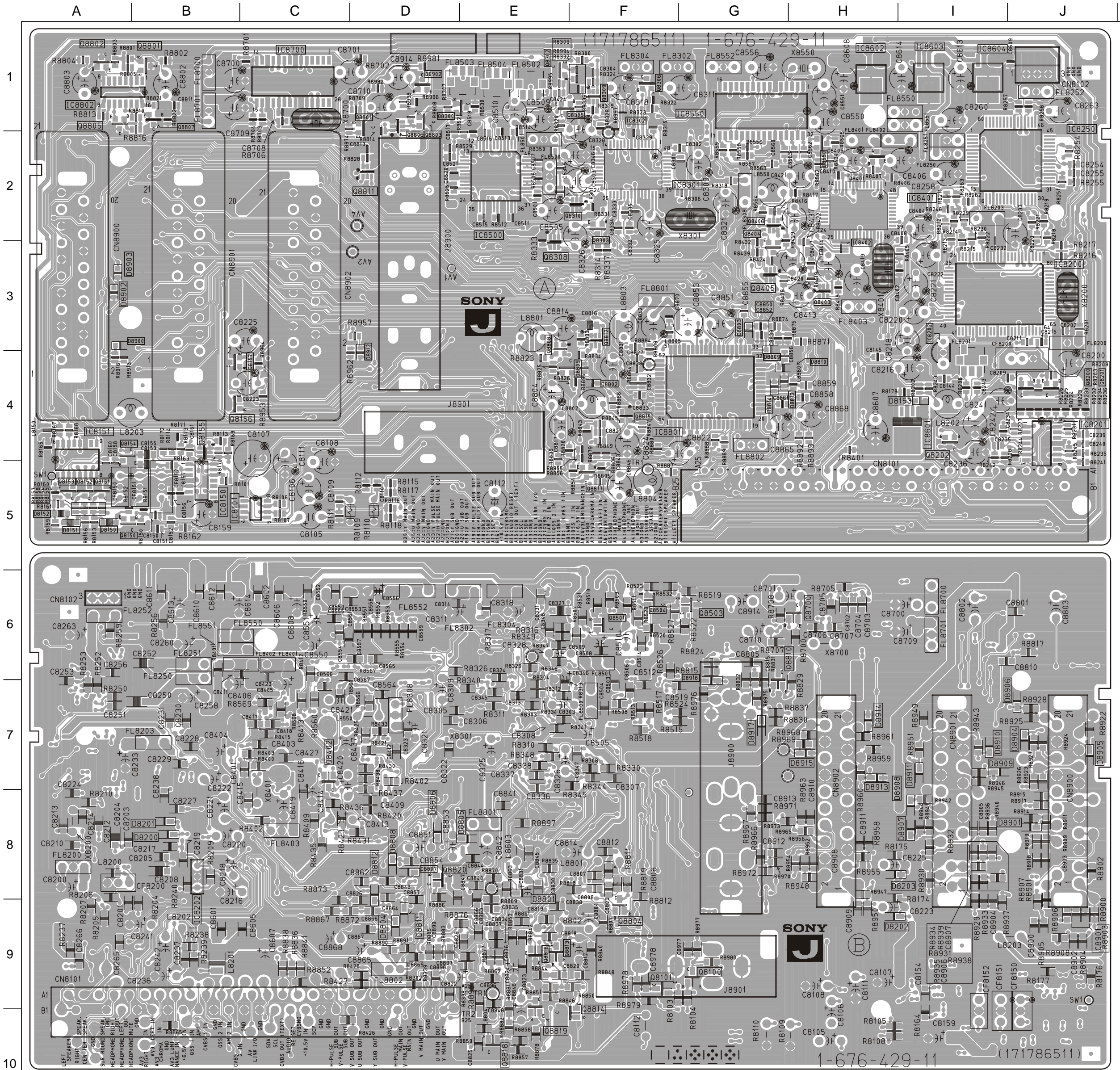
Semiconductor Location Table

IC		Q1403	L-9
IC1126	G-7	Q1404	L-9
IC1151	H-7	Q1405	M-8
IC1176	C-7	Q1406	M-9
IC1400	E-10	Q1601	B-11
IC1601	L-4	Q1602	C-9
IC1604	L-5	Q1626	F-9
IC1605	L-7	DIODE	
IC1630	I-2	D1101	B-9
IC1631	L-2	D1101	B-9
IC1631	L-2	D1102	B-9
TRANSISTOR		D1103	D-10
Q1100	B-9	D1104	E-14
Q1101	C-9	D1201	K-13
Q1201	F-12	D1401	E-12
Q1202	F-12	D1402	E-12
Q1204	F-12	D1405	L-11
Q1226	J-15	D1406	L-11
Q1227	J-15	D1407	L-11
Q1229	I-14	D1408	L-11
Q1300	G-13	D1601	C-9
Q1326	L-12	D1602	C-9
Q1327	L-12	D1626	B-12
Q1328	K-13	D1627	F-10
Q1329	K-13	D1630	H-1
Q1401	L-9	D1631	L-3
Q1402	L-9	D1631	L-3

Semiconductor Voltage Table

Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)
Q1100	10.5	10.6	0	Q1229	5	4.9	0
Q1101	0	0	2.2	Q1326	1.2	1.8	4.4
Q1201	0	0.6	0	Q1327	5	4.4	1.7
Q1202	0	0.1	2.1	Q1328	2.6	3.2	8.3
Q1300	0	4.6	0	Q1329	5	8.3	4.5
Q1226	0	0	4.9	Q1601	0	0	5
Q1227	0	0	4.9	Q1602	3.9	3.3	0





Semiconductor Location Table

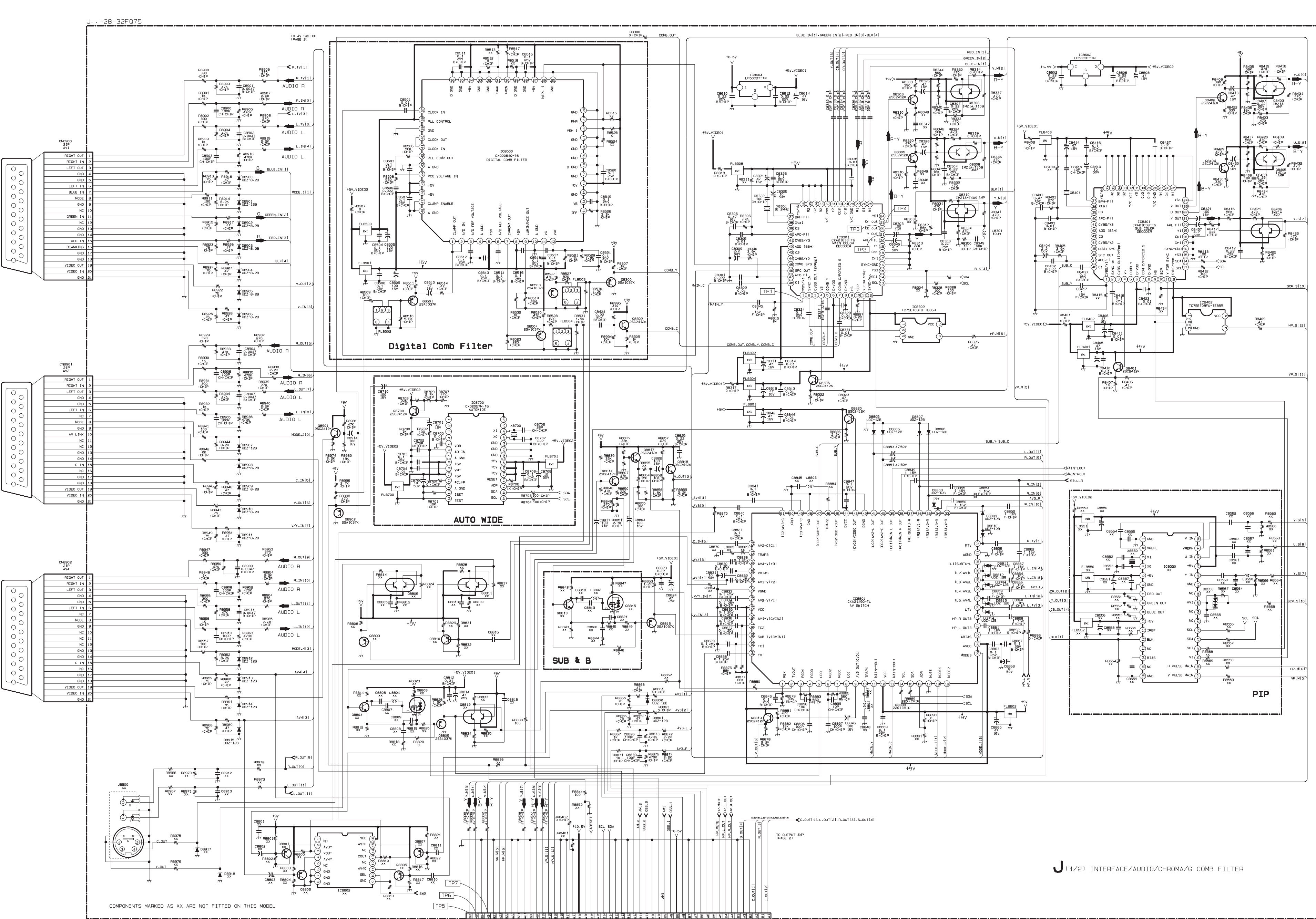
IC	Q8150 A - 5	Q8405 G - 3	D8810 G - 4
IC8101 B - 5	Q8151 A - 5	Q8406 G - 2	D8811 D - 9
IC8150 B - 5	Q8152 A - 5	Q8501 F - 6	D8812 D - 8
IC8151 A - 4	Q8153 A - 5	Q8501 D - 1	D8813 G - 4
IC8200 J - 3	Q8154 A - 4	DIODE	
IC8201 J - 4	Q8156 B - 4	D8150 A - 5	D8900 A - 3
IC8202 I - 3	Q8157 C - 4	D8151 A - 5	D8901 J - 8
IC8301 F - 2	Q8200 J - 3	D8152 A - 5	D8902 A - 3
IC8302 F - 1	Q8201 J - 4	D8153 I - 4	D8903 A - 3
IC8401 I - 2	Q8202 I - 4	D8200 B - 8	D8904 J - 7
IC8402 H - 2	Q8300 D - 1	D8201 B - 8	D8905 J - 7
IC8500 E - 2	Q8302 E - 1	D8202 H - 9	D8906 I - 7
IC8550 G - 1	Q8303 F - 2	D8203 H - 8	D8907 I - 8
IC8601 I - 4	Q8305 E - 1	D8801 E - 8	D8908 I - 8
IC8602 H - 1	Q8306 F - 1	D8802 F - 4	D8909 I - 7
IC8603 I - 1	Q8308 E - 3	D8803 G - 3	D8910 I - 7
IC8604 I - 1	Q8309 F - 1	D8804 D - 9	D8911 I - 7
IC8700 C - 1	Q8310 E - 2	D8805 D - 8	D8912 D - 3
IC8801 F - 4	Q8401 H - 2	D8806 D - 8	D8913 H - 7
TRANSISTOR			
Q8100 G - 9	Q8403 H - 3	D8807 D - 8	D8914 H - 7
Q8101 F - 9	Q8404 G - 2	D8808 D - 8	D8915 H - 7

IC Voltage Table

IC Voltage Table				
Ref No	Pin No	Voltage (V)	Ref No	Voltage (V)
IC8200	2-3	4.7	1-2	1.5
	4-6	2.5	3	0.5
	7	0.6	6	2.6
	17	0.7	7	0.9
	21	5.0	9	1.0
	36	3.8	11	2.8
	37	3.7	12-13	1.8
	38	7.0	14	1.0
	40	7.0	22-23	5.0
	45	3.7	26	5.0
IC8201	56-57	3.8	30	5.0
	58	2.6	37	2.4
	60	3.8	40-42	1.9
	67	0.4	44	1.9
	68-69	1.5	1	4.2
	71	2.4	3	4.1
	72	2.2	5	0.6
	1-3	5.0	8	0.5
	5-10	5.0	1	1.8
	12-14	5.0	2-4	4.5
IC8301	1	2.4	5	0
	2	1.9	6-7	4.6
	3	1.5	8	0
	4	0.1	9	4.6
	5	2.4	10	3.4
	7	2.6	11	3.8
	9	0.3	13	4.5
	10	0.8	22-30	4.5
	11	2.5	32-41	4.5
	13-14	4.5	43	4.6
IC8401	20	2.4	45	3.7
	21	1.8	46	3.5
	22-23	1.9	47	4.5
	24	0.1	49	4.5
	25-27	2.5	51-80	4.5
	29	2.8	2	2.4
	37	1.1	3	4.6
	38	4.0	4	4.6
	1	2.3	5	0.4
	2	1.9	6	4.6
IC8151	4	0.1	7	0.4
	9	0.3	9	0
	10	4.0	10	2.6
	11	2.4	1	3.0
	20	2.4	2	2.5
	21	1.7	3	1.7
	22-23	1.9	6	4.3
	37	1.1	12	2.4
	38	4.0	13	4.6
	40	3.3	14	2.5
IC8150	47	3.8		
	48	1.8		

Semiconductor Voltage Table

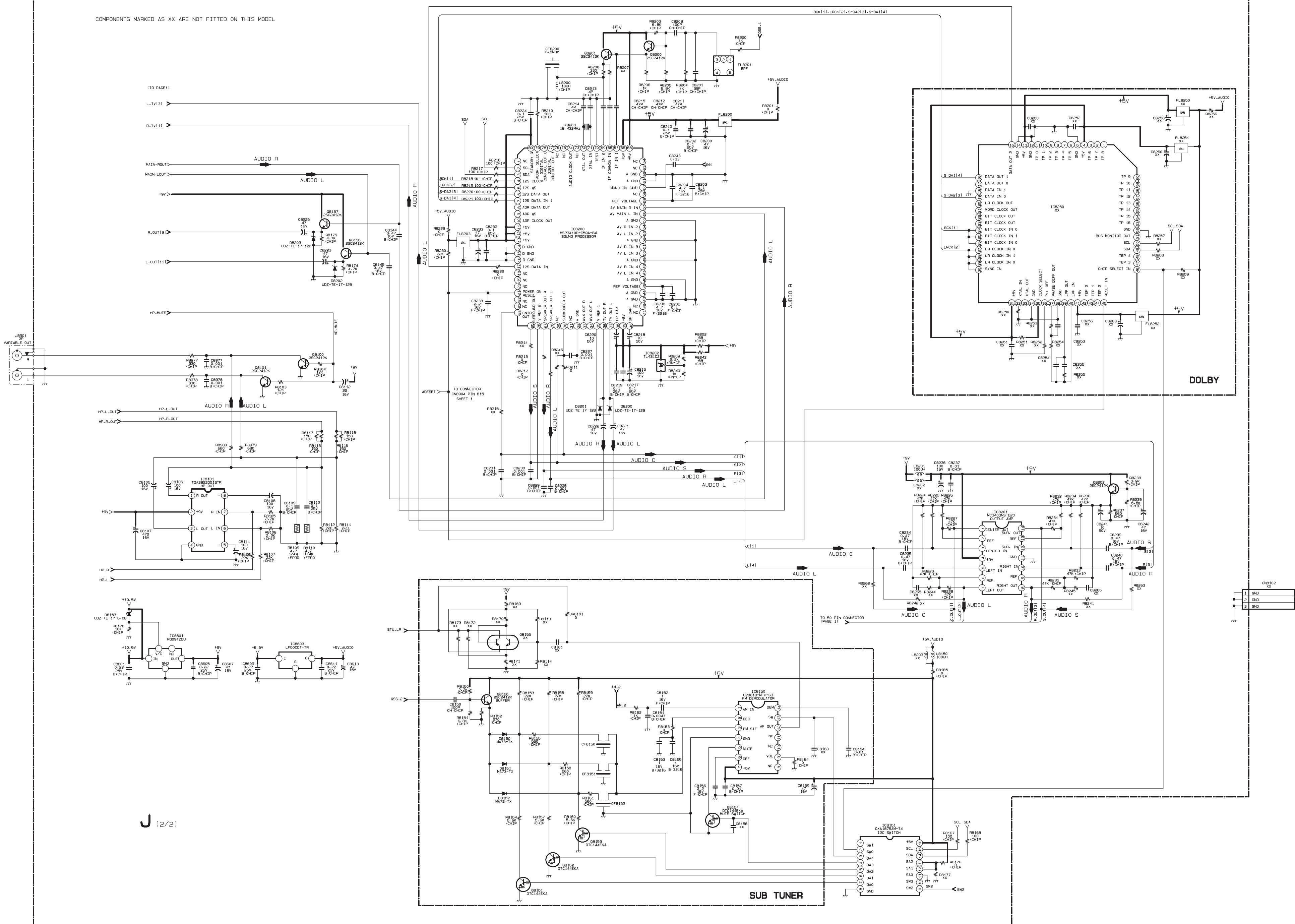
Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)
Q8150	2.9	3.6	5.0	Q8302	1.0	1.6	9.0
Q8151	0	4.4	4.8	Q8303	1.3	1.9	7.7
Q8152	0	4.6	0	Q8305	1.3	1.9	7.3
Q8153	0	0.4	4.8	Q8306	0.1	0.1	5.0
Q8154	0	4.6	0	Q8401	0.1	0.1	5.0
Q8156	3.9	4.6	9.0	Q8404	1.2	1.9	7.4
Q8157	3.9	4.6	9.0	Q8809	2.7	2.1	0
Q8200	1.9	2.5	5.0	Q8817	3.9	4.6	9.0
Q8201	1.2	1.9	5.0	Q8901	1.9	2.5	9.0
Q8202	5.1	5.8	9.0	Ref	(s)	(g)	(d)
Q8300	1.6	1.0	0	Q8815	1.8	0	0.6



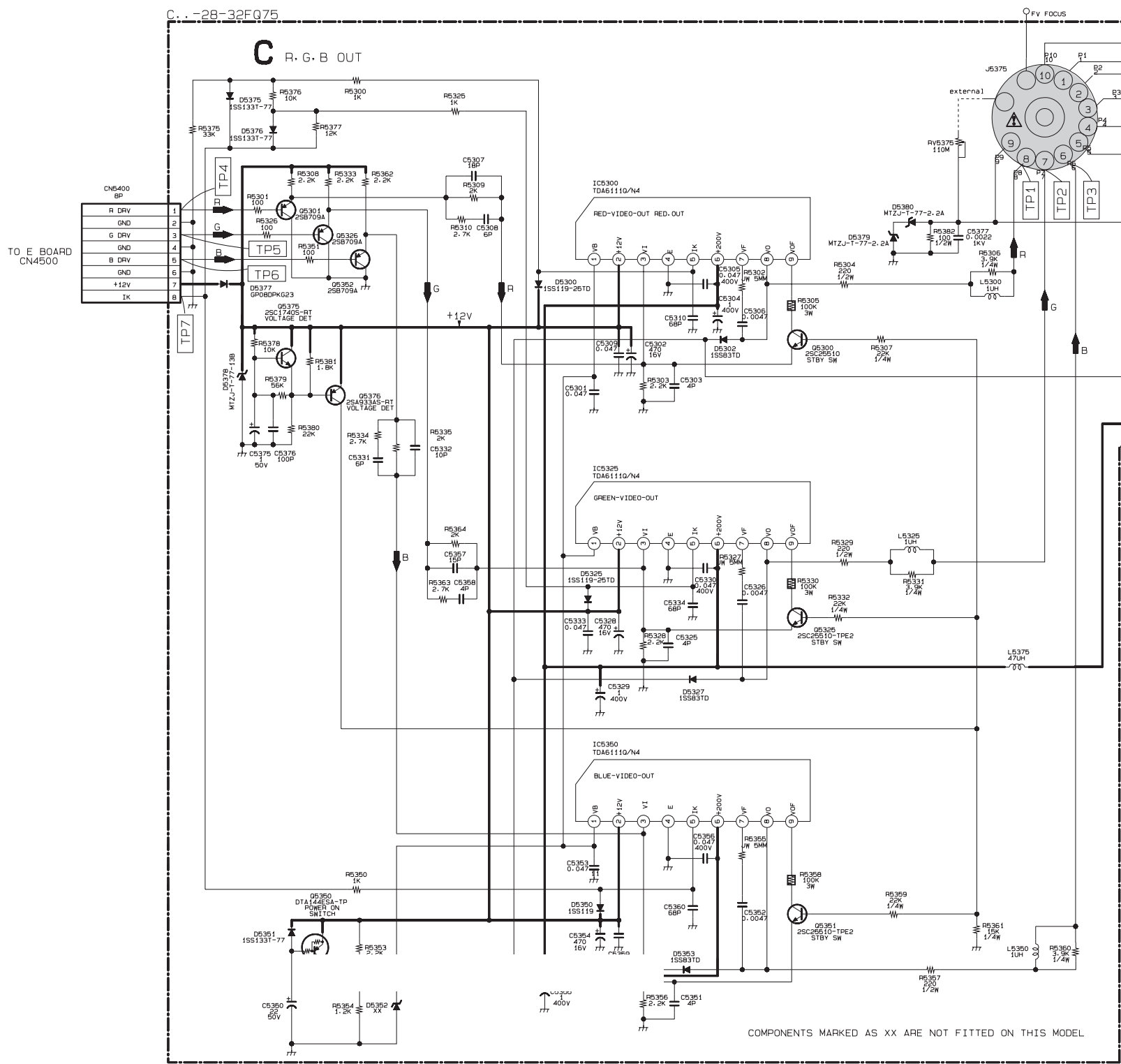
J (1/2) INTERFACE/AUDIO/CHROMA/G COMB FILTER

J. -28-32FQ75

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

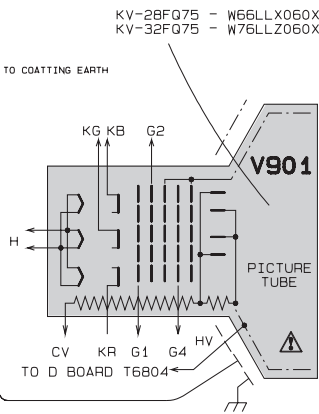


J (2/2)



TO E BOARD
CN4500

TO D BOARD
CN6500



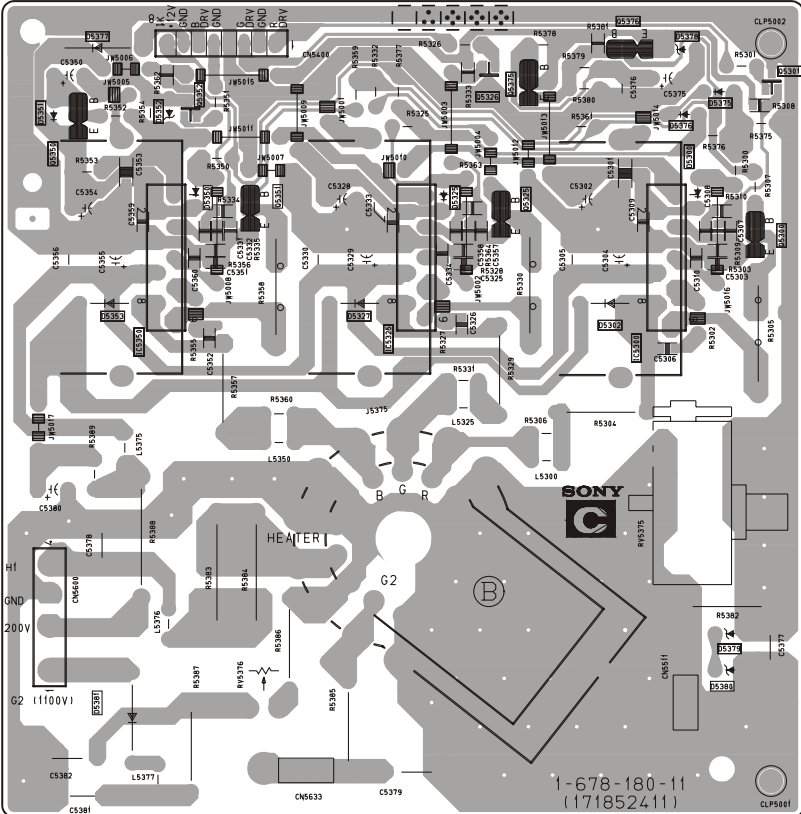
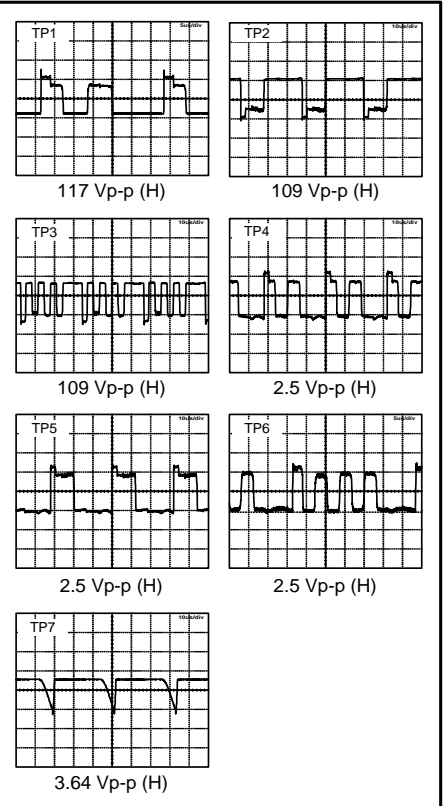
Semiconductor Voltages

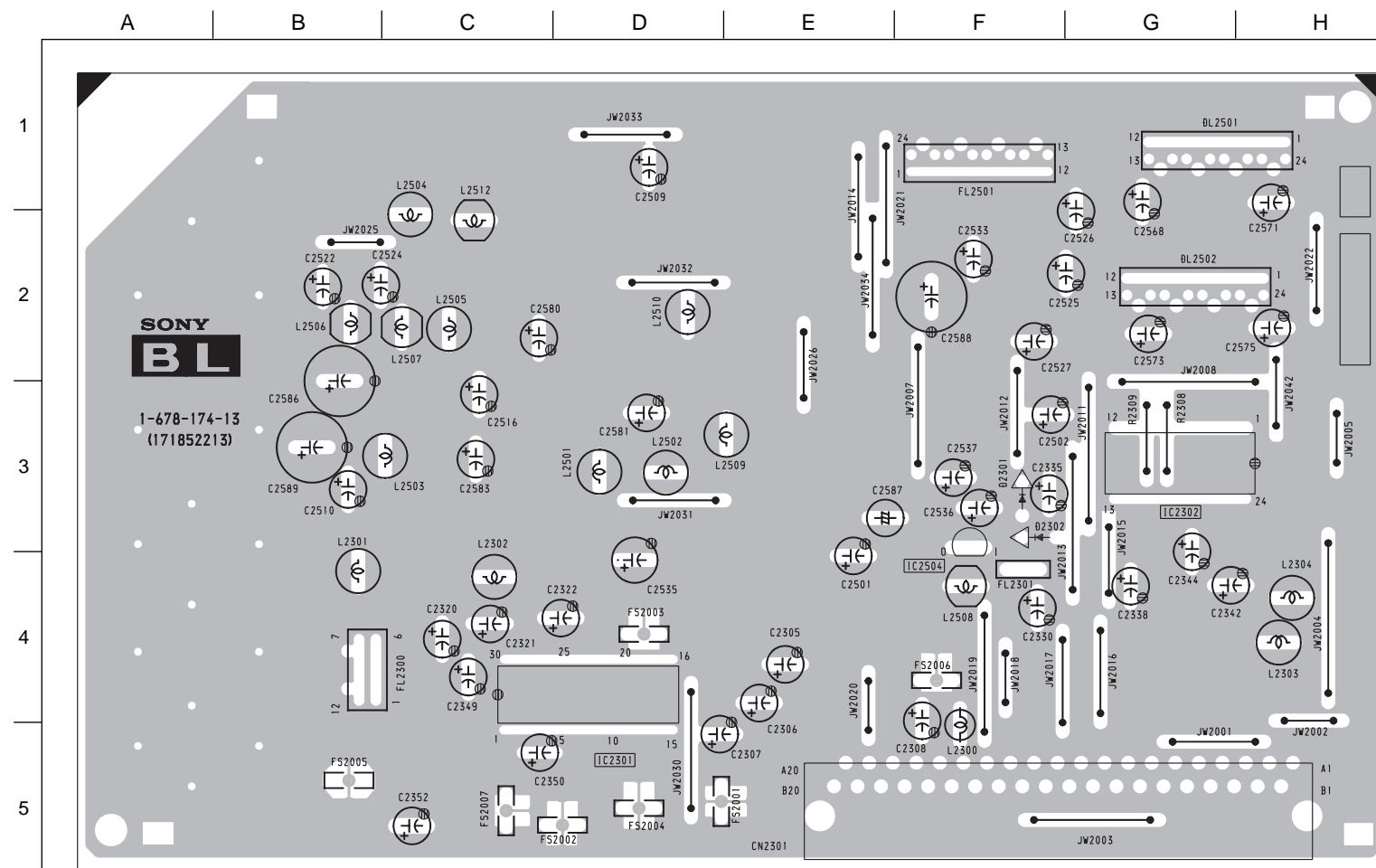
Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)
Q5301	3.5	2.8	0	Q5300	3.7	4.4	3.8
Q5326	3.6	3	0	Q5325	3.7	4.4	3.8
Q5352	3.7	3	0	Q5351	3.8	4.4	3.9
Q5375	10.3	10.9	11	Q5350	11	10.9	3.9
Q5376	11	10.3	10.9				

IC Voltage Table

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC5300	1	3.9
	3	3.8
	5	8.4
	7	153.0
	8	157.0
IC5325	1	3.9
	3	3.8
	5	8.7
	7	150.0
	8	155.0
IC5350	1	3.9
	3	3.8
	5	8.4
	7	150.0
	8	156.0
	9	149.0

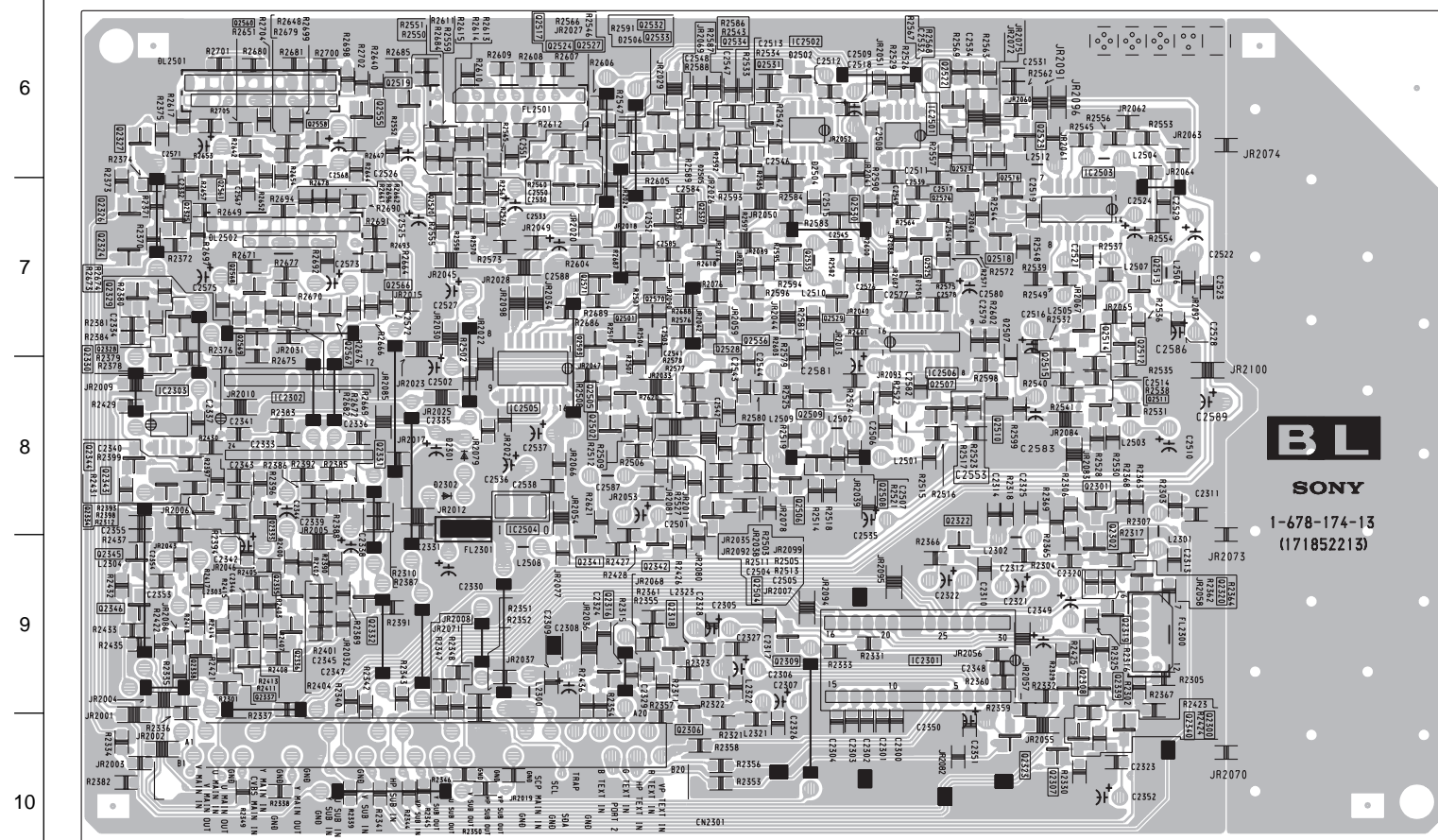
C board Waveforms





BL [PRINTED WIRING BOARD (A) SIDE)]

IC		Q2504	G - 13
IC2301	E - 9	Q2506	G - 13
IC2501	E - 6	Q2507	H - 11
IC2502	E - 6	Q2508	H - 12
IC2503	F - 6	Q2509	G - 12
IC2504	C - 9	Q2510	I - 12
IC2505	C - 8	Q2511	J - 12
TRANSISTOR		Q2512	J - 11
Q2300	G - 10	Q2513	J - 11
Q2301	F - 8	Q2514	J - 11
Q2302	G - 8	Q2515	I - 11
Q2306	D - 10	Q2516	I - 10
Q2307	F - 10	Q2517	E - 8
Q2308	F - 9	Q2518	I - 10
Q2309	E - 9	Q2519	C - 9
Q2316	C - 9	Q2520	D - 10
Q2318	D - 9	Q2521	H - 9
Q2319	G - 8	Q2522	H - 9
Q2320	G - 9	Q2523	I - 9
Q2322	F - 8	Q2524	E - 8
Q2323	F - 10	Q2525	H - 10
Q2324	A - 7	Q2526	H - 10
Q2325	A - 7	Q2527	E - 8
Q2326	A - 7	Q2528	F - 11
Q2327	A - 6	Q2529	G - 11
Q2331	B - 8	Q2530	G - 10
Q2332	B - 9	Q2531	D - 6
Q2333	B - 9	Q2532	F - 8
Q2334	A - 8	Q2533	F - 8
Q2335	B - 9	Q2534	D - 6
Q2336	B - 9	Q2555	C - 9
Q2337	B - 9	Q2566	C - 10
Q2338	B - 9	Q2568	B - 10
Q2339	G - 9	Q2571	E - 10
Q2340	G - 9	DIODE	
Q2341	C - 9	D2502	G - 9
Q2342	D - 9	D2503	H - 10
Q2344	A - 8	D2504	G - 9
Q2345	A - 9		

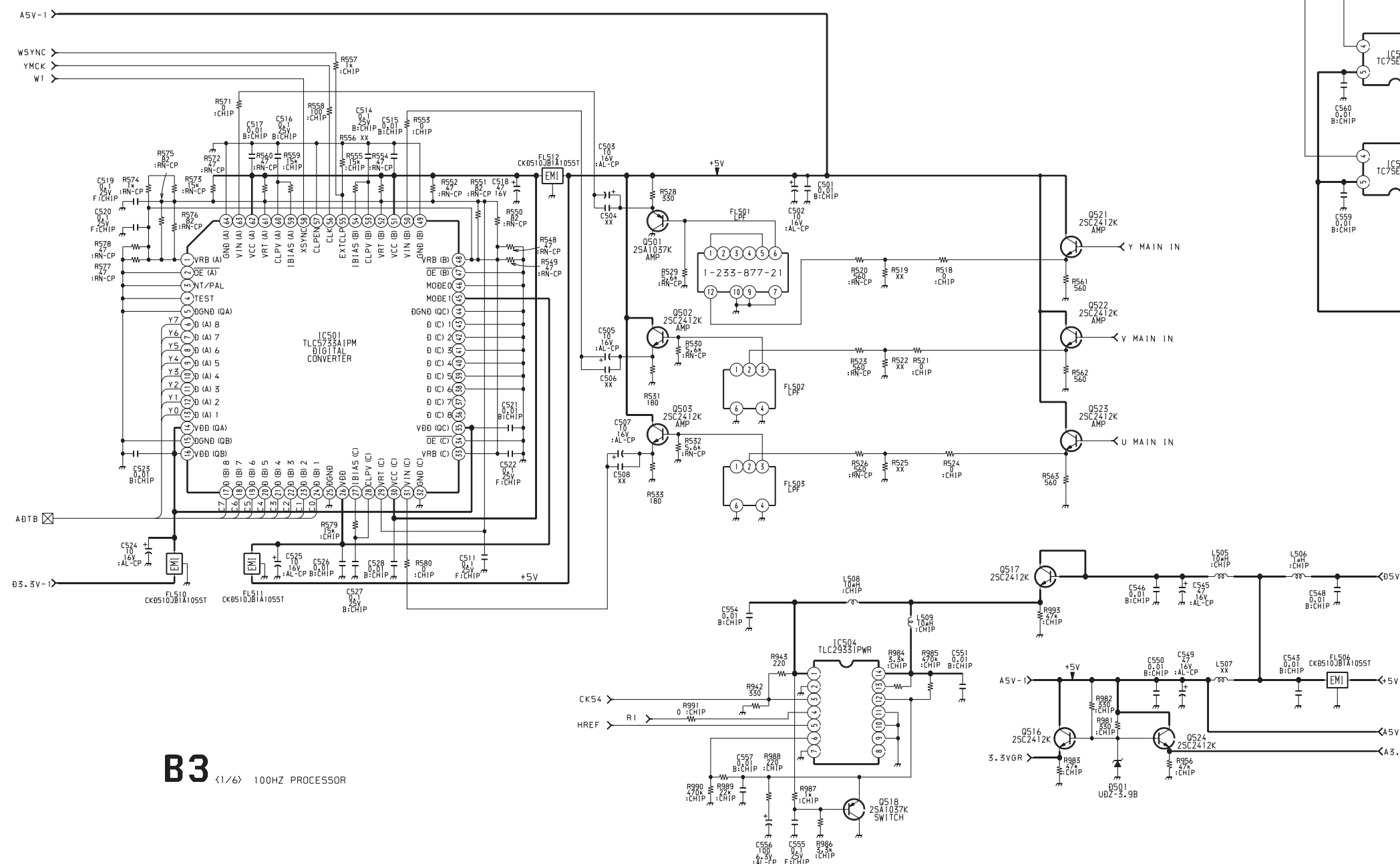
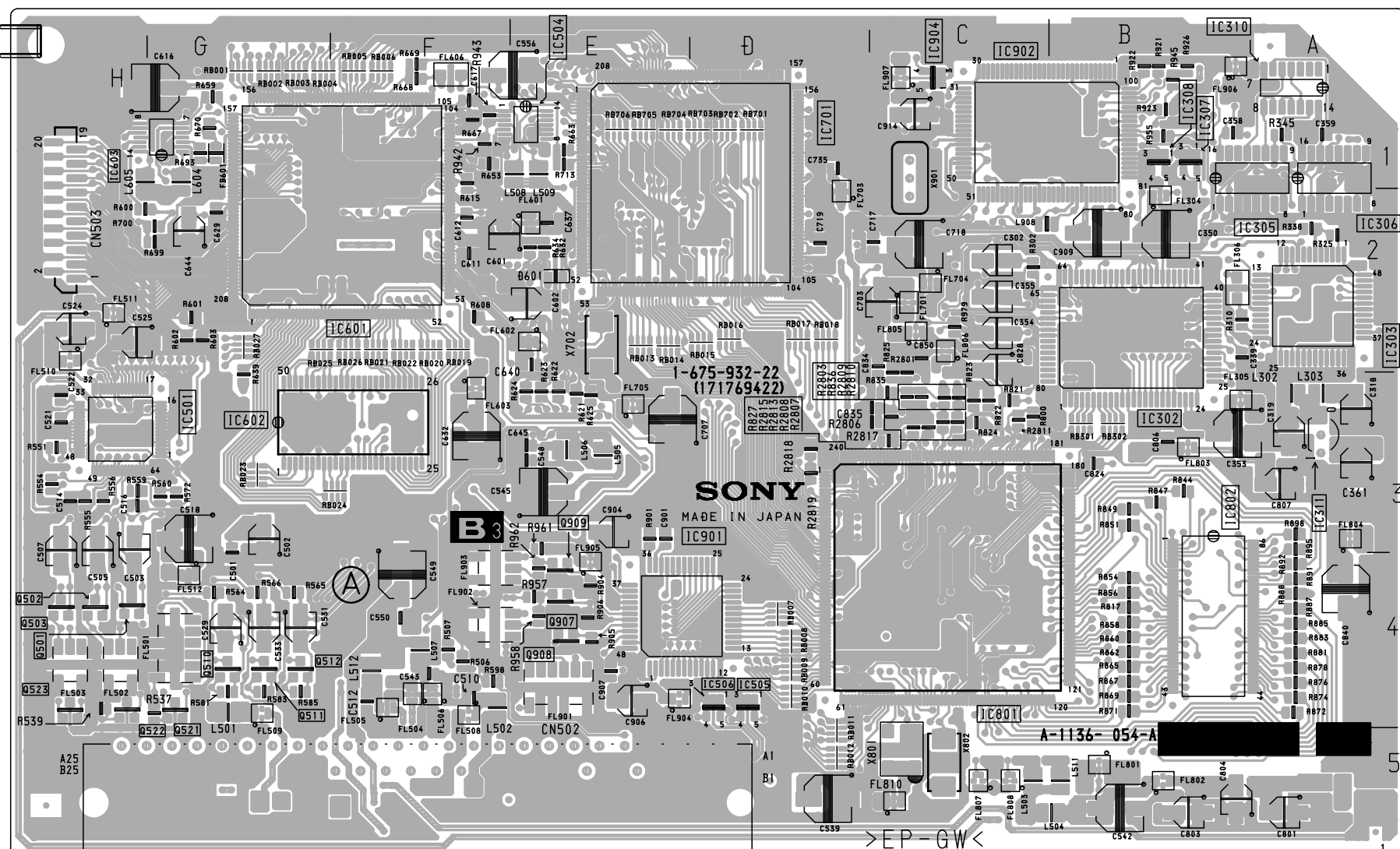
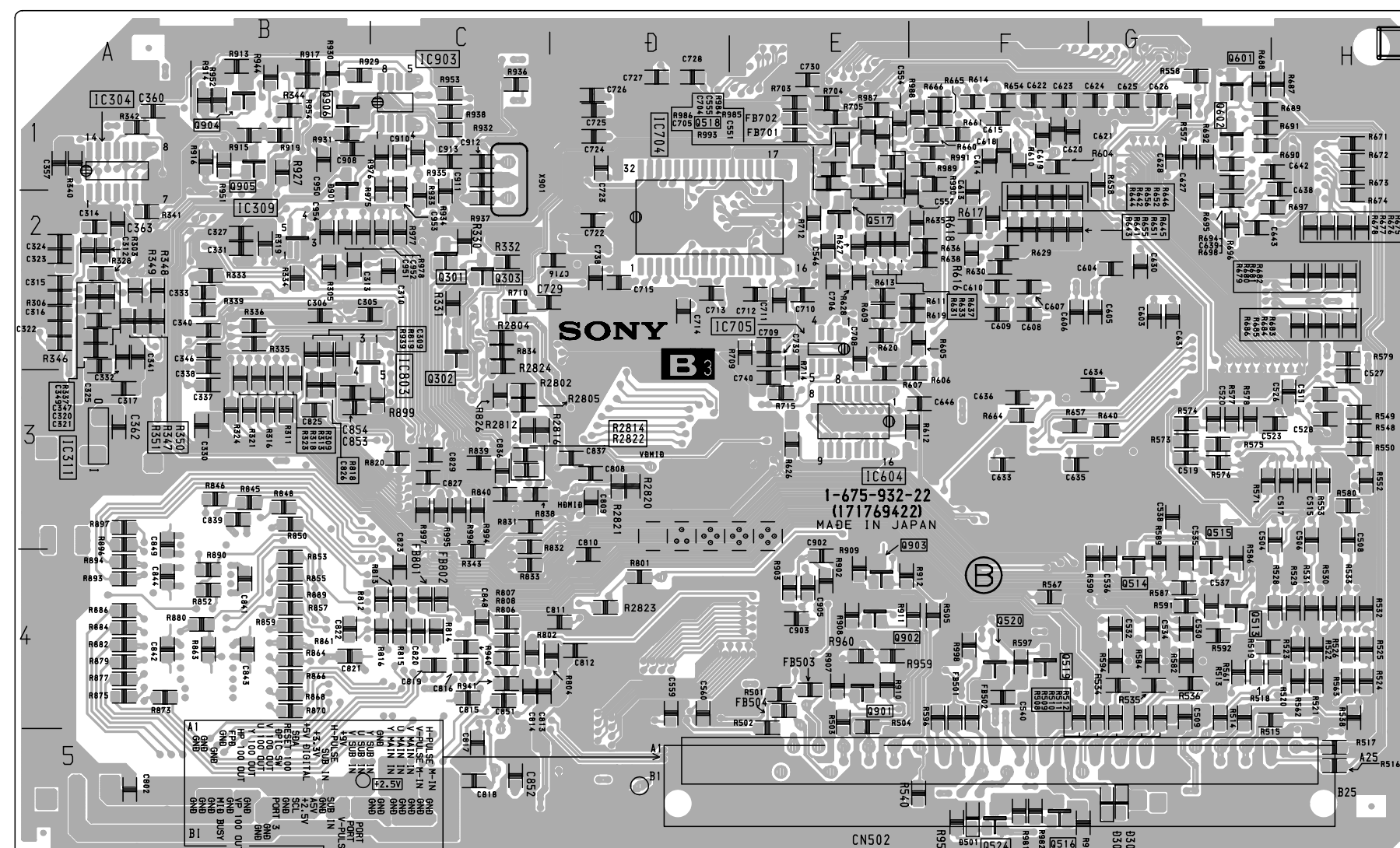
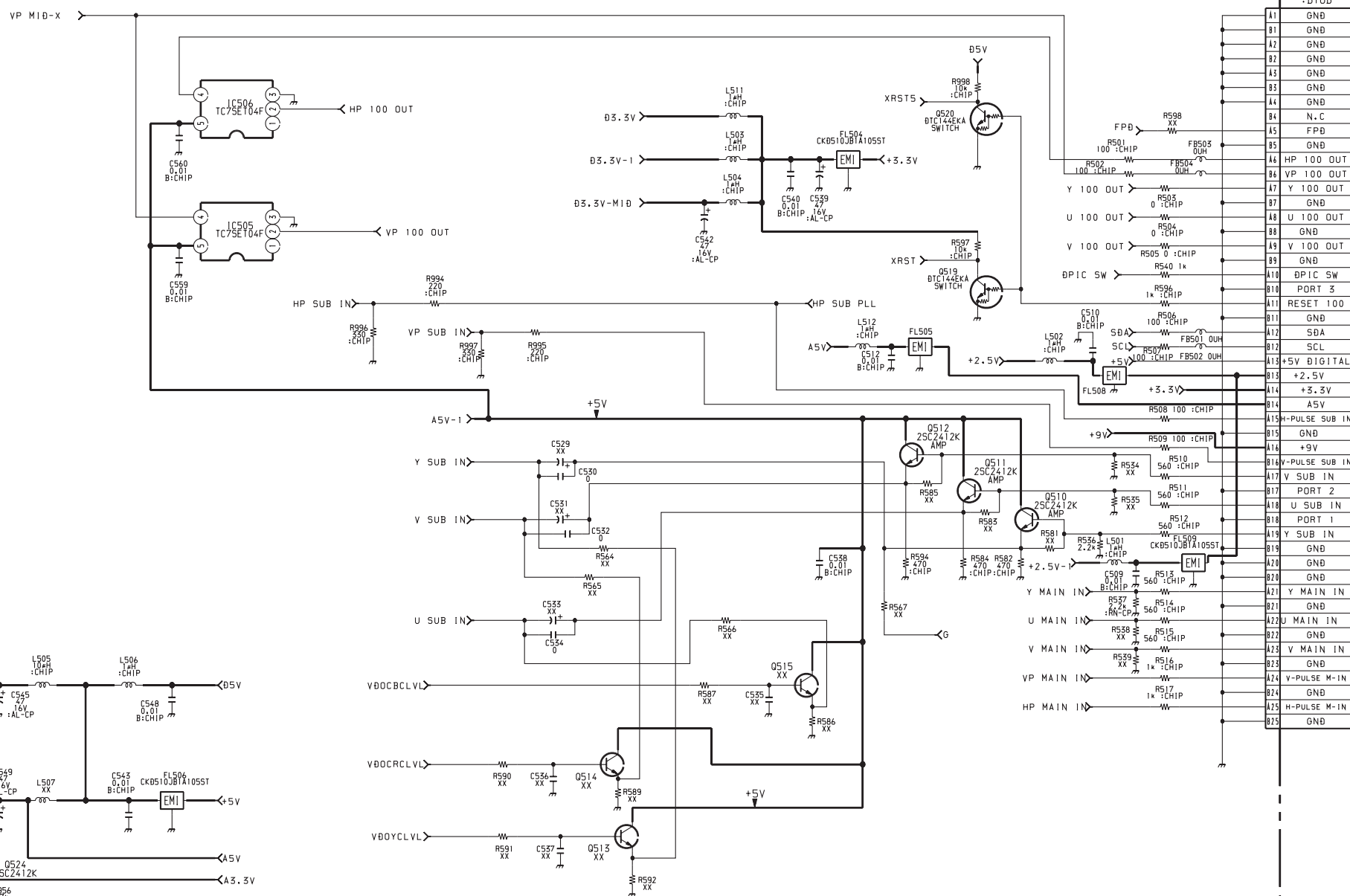


BL [PRINTED WIRING BOARD (B) SIDE)]



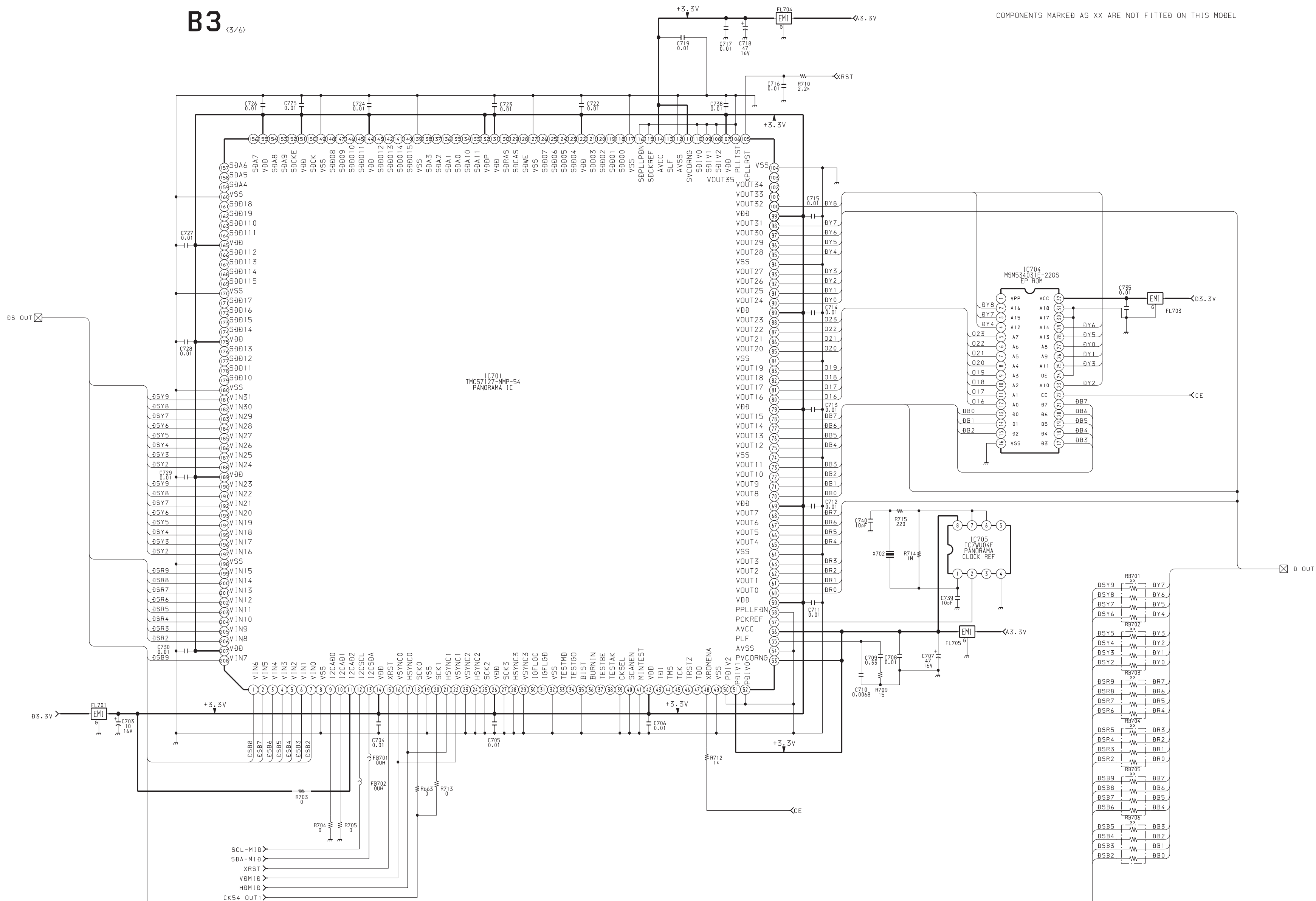
B-BAESAC...->B3--28-32F075

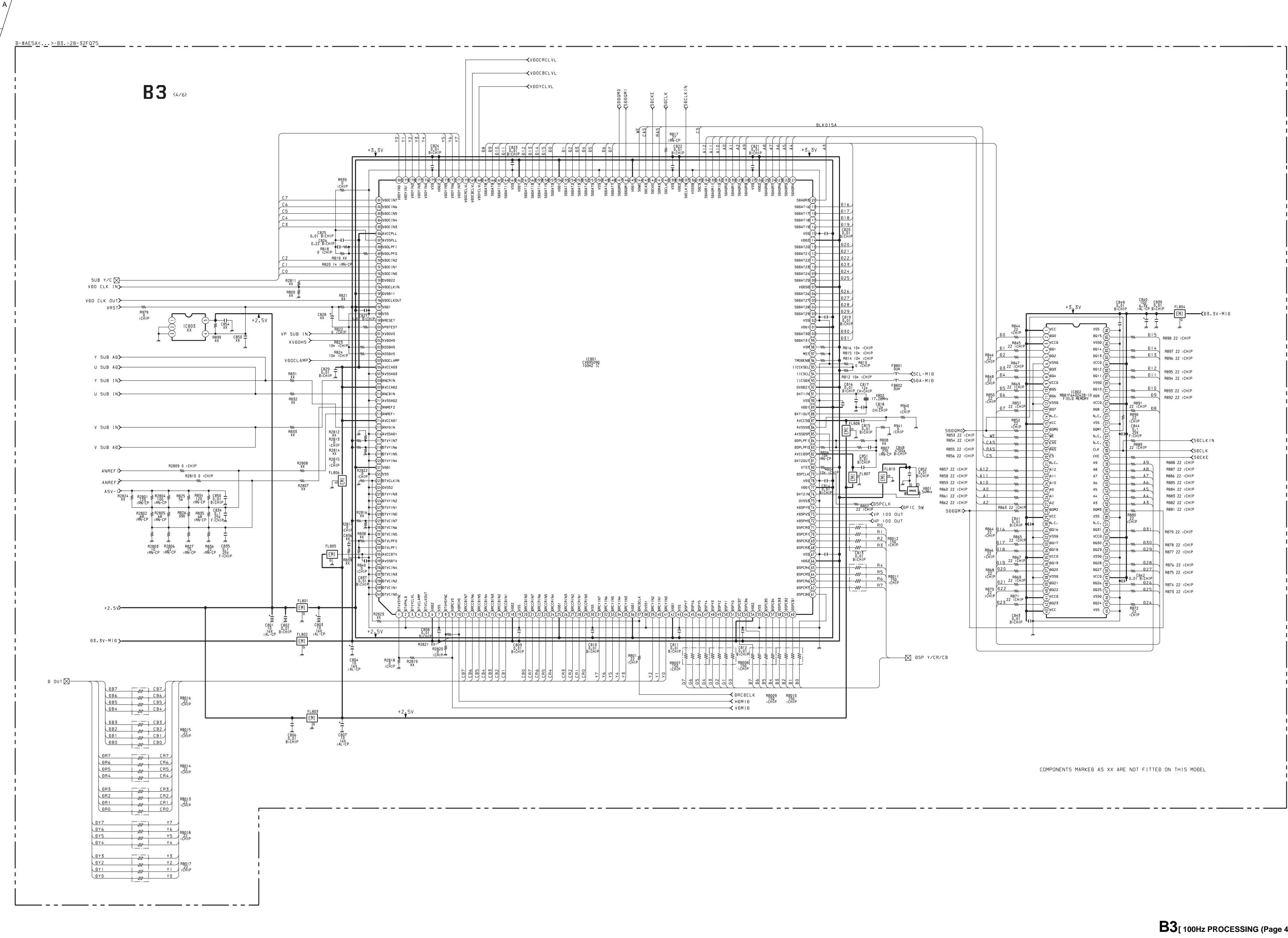
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

**B3** [100Hz PROCESSING (Page 1/6)]**B3** [PRINTED WIRING BOARD [A] SIDE]**B3** [PRINTED WIRING BOARD [B] SIDE]



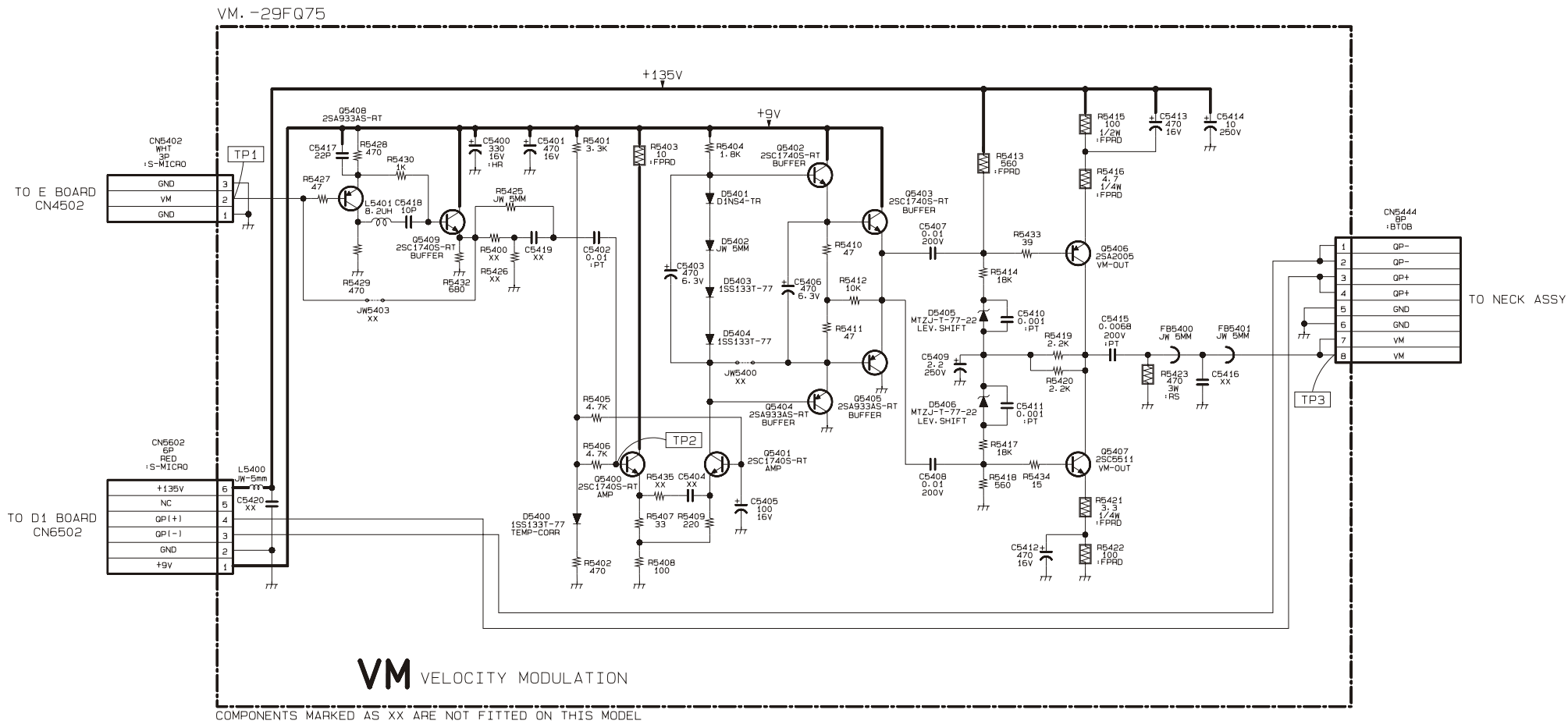
B-#AE5A<...>-B3.-28-32FQ75





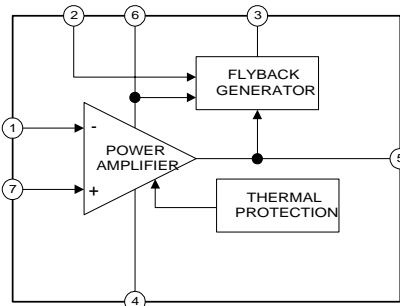
{5/6}



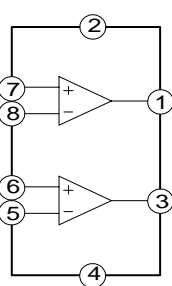


5-5. IC BLOCK DIAGRAMS

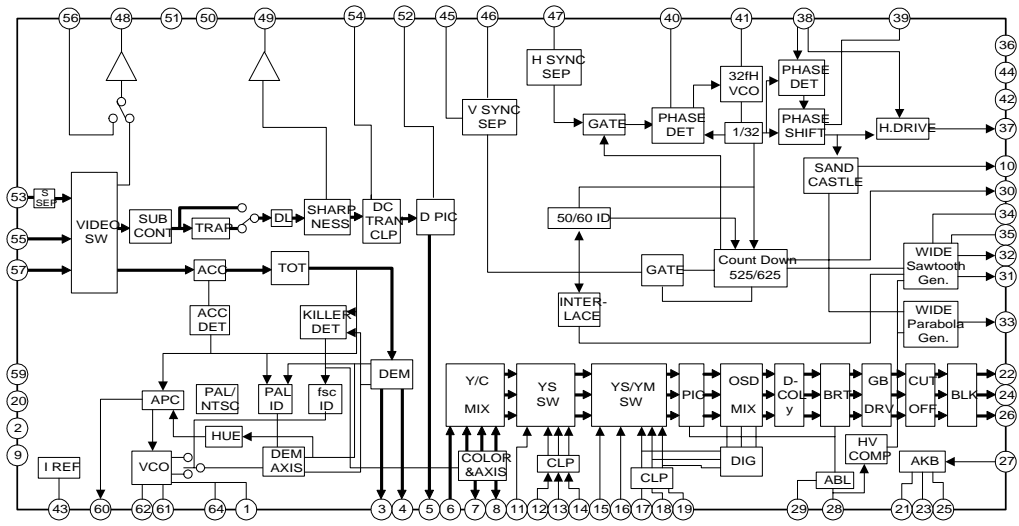
D BOARD IC6700 STV 9379



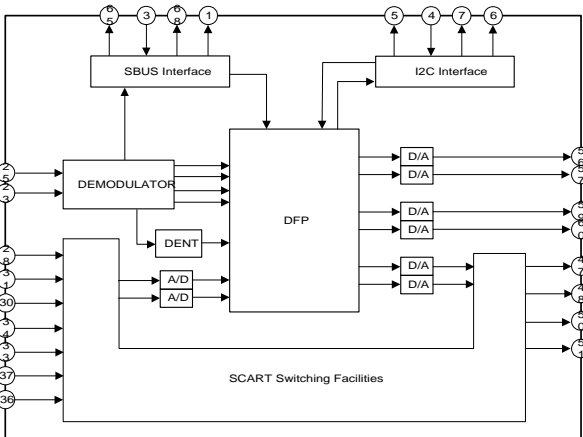
J BOARD IC8101 TDA2822D



E BOARD IC4301 CXA2100Q-TL

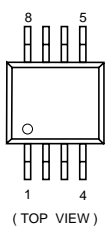


J BOARD IC8200 MSP3410D-QA-B4

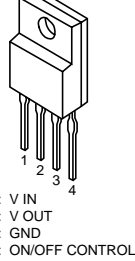


5-4 SEMICONDUCTORS

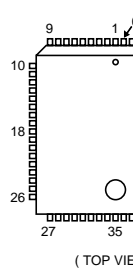
BA7046F
BA7046F-T1
LM393PS-E20
MB3793-42NF
MB3793-42NF-ER
NJM2240M
NJM2240M(TE2)
NJM3404AD



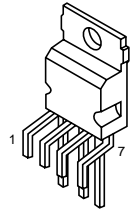
KA78R05TU
KA78R09TU
KA78R33TU



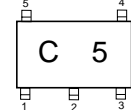
MSP3410D-QA-B4
SAA7185VP
SDA5273P-C134-GEG
SDA5275



STV9379



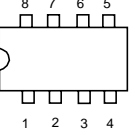
TC4S69F



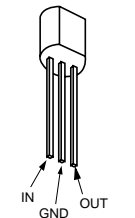
TC55257DFTL-70V-EL



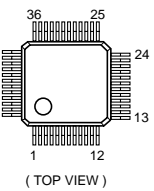
CAD005AD
LM358
LM393N
M5216P
M24C32-BN6
ST24C16FB6
TDA2822M
UPC393C



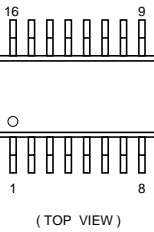
LM78L05ACZ
LM78L12ACZ
L78L05ACZ-AP
L78L12ACZ-AP



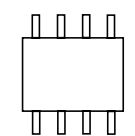
CXA1855Q-T6



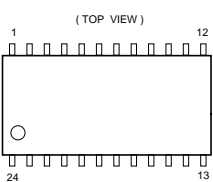
CXA1875AM-T4
HE4094BT
MC14052BDR2
MC74F157ADR2
SN74LS221D
74HCT4046AD/S470



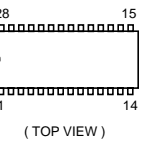
MB3793-42PNF-ER



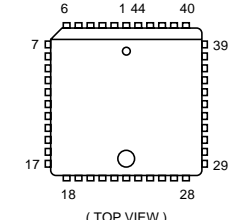
MB88141PF-ER



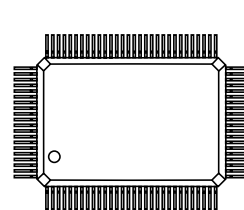
CXD2053S
TDA4780/V3



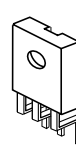
M27C800-100K1



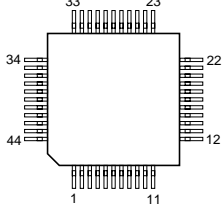
MSM65355GS
SAB-C161R1-LM



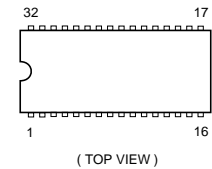
SBX1981-51



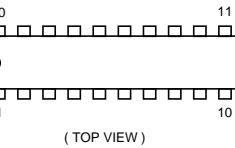
SDA9361



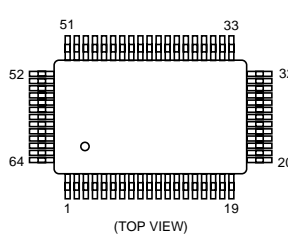
SDA9288X-B121
TDA9143/N2
TDA9144/N2
TDA9170T
MSM534031E3Y-Z



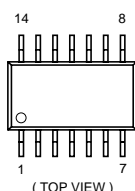
TDA7309D013TR



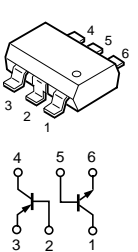
TDA9320H-N1-518



U2860B-BFPG3
74LVC08D



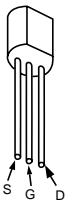
IMZ1A-T109



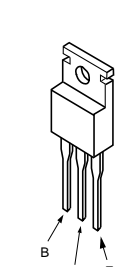
2SC2500-B
2SC2551-O
2SC2551O-TPE2



BC546B
BC556B



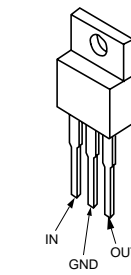
IRF614
IRF620



2SC2688-LK
2SC3840K



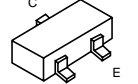
TEA6422DT
LM393N



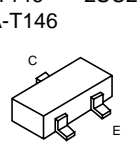
BF199
BF199-AMMO



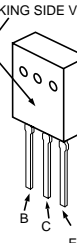
DTA144EK
DTA144EK-T146
DTC114EK
DTC114YKA-T146
DTC123EK
DTC123EK-T146
DTC124EKA-T146



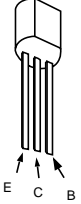
DTC144EK
DTC144EK-T146
2SA1037K-T-146-R
2SA1162-G
2SC2412K-QR
2SC2412K-T-146-R



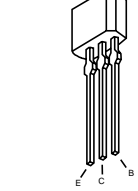
2SC3997CA



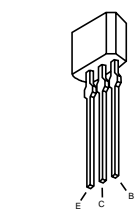
BF421-AMMO



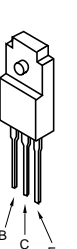
DTA144ESA
DTA144ESA-TP
DTC114ESA-TP
DTC144ESA-TP
2SA1175-HFE
2SA733-K



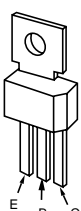
2SA933AS-RT
2SA933AS-QRT
2SA933S-RT
2SC1740S-RT
2SC2785-HFE



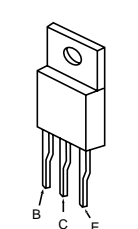
2SC4793



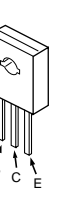
BF87-127



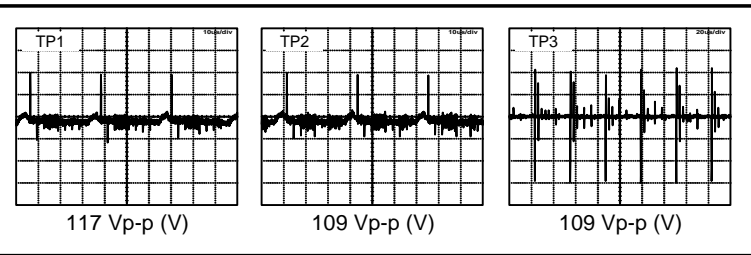
2SA1837



2SD2396H

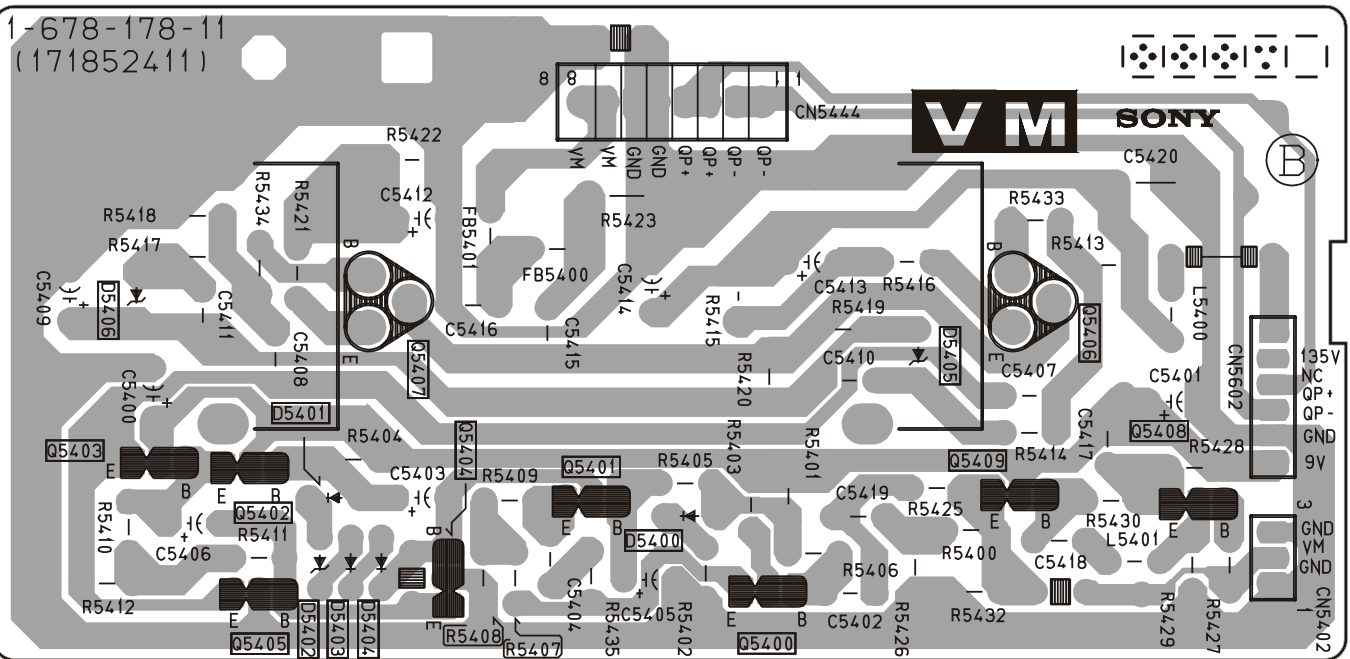


VM board Waveforms

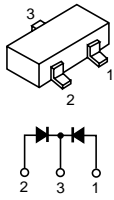


Semiconductor Voltage Table

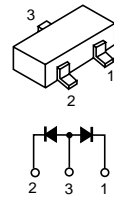
Ref	(e)	(b)	(c)
Q5400	0.9	1.5	9.0
Q5401	1.0	1.6	5.2
Q5402	6.0	6.6	9.0
Q5403	5.9	6.0	9.0
Q5404	5.2	5.9	0
Q5405	5.9	5.8	0
Q5406	135.1	134.6	68.2
Q5407	0.8	1.4	68.2
Q5408	7.6	6.9	1.4
Q5409	6.9	7.5	9.0



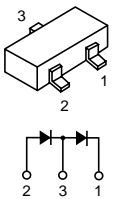
DAN202K
DAN202K-T-146



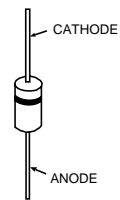
DAP202K
DAP202K-T-146



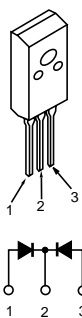
DA204K
DA204K-T-146



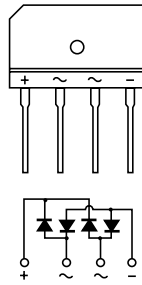
D1NL20-TA
D1NL20U-TR
D1NS4-TR
EGP20G
EL1Z
GP08D
GP08DPKG23
R2K-V1



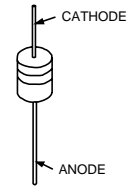
D10SC4M-F
D10SC6M



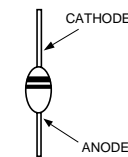
D4SB60L
D4SB60L-F
RBA-402L



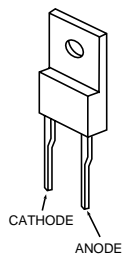
ERA38-06TP1
ERA82-004TP1
GP08DPKG23
MTZJ-T-77-12
MTZJ-T-77-15
MTZJ-T-77-2.2A
MTZJ-T-77-3-3B
MTZJ-T-77-3.6A
MTZJ-T-77-4.7B
MTZJ-T-77-5.6B
MTZJ-T-77-6.8
MTZJ-T-77-7.5B



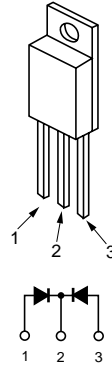
ERC04-06SE



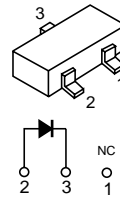
ERD08M-15



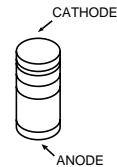
ESAC39M-06C
ESAC39M-06CF38



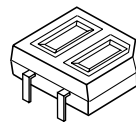
MA3033-L
MA3033L-TX
MA3056M-TX
MA3062M-TX
MA3030-H-(TX)



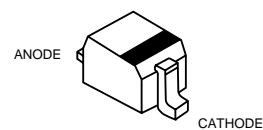
MA3051L-TX



MA73-TX



1SS355TE-17
RD12SB2
UDZ-TE-17-3.9B
UDZ-TE-17-4.7B
UDZ-TE-17-6.2B
UDZ-TE-17-6.8B
UDZ-TE-12B



Memo

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

SECTION 6 EXPLODED VIEWS

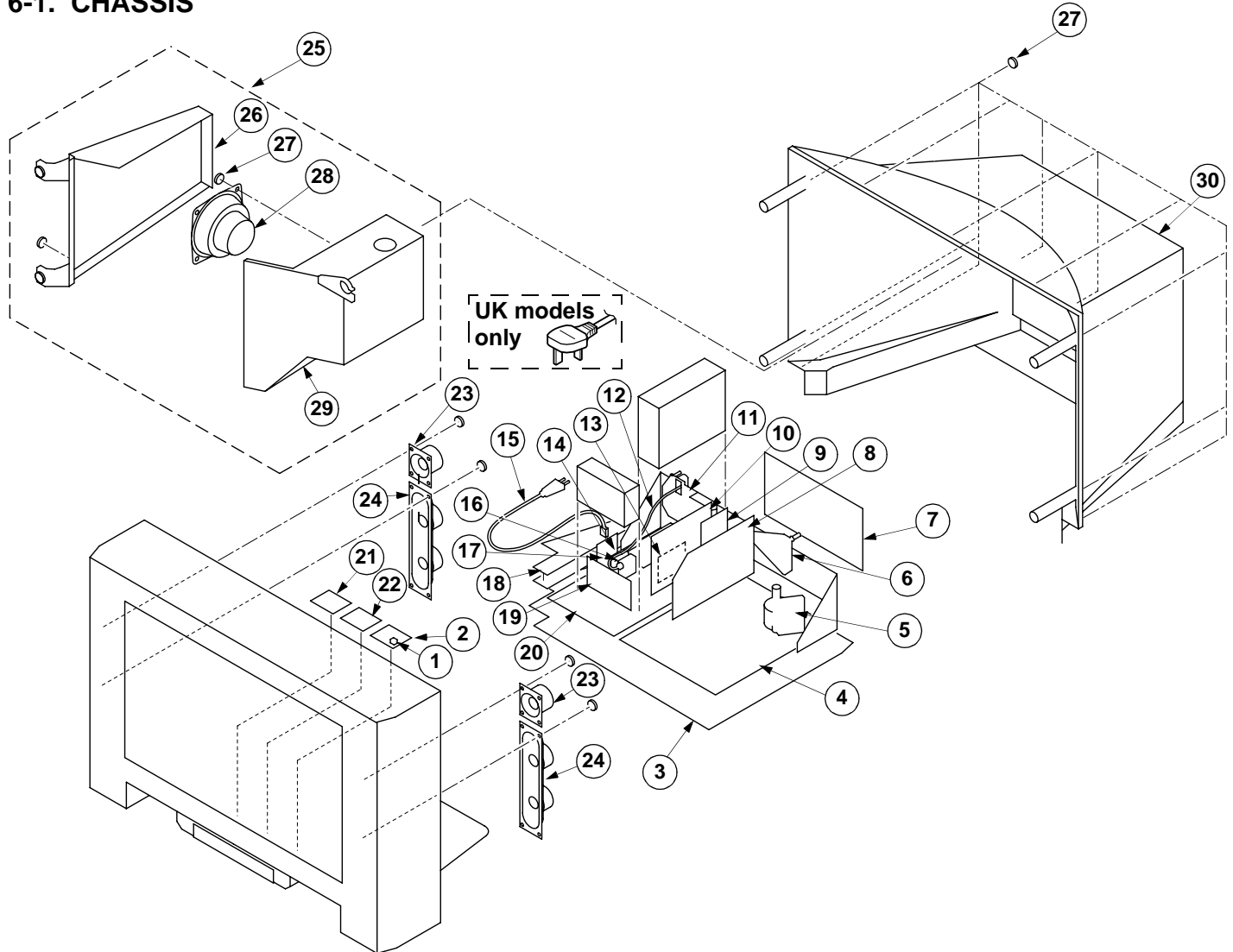
Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces du numéro spécifié.

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

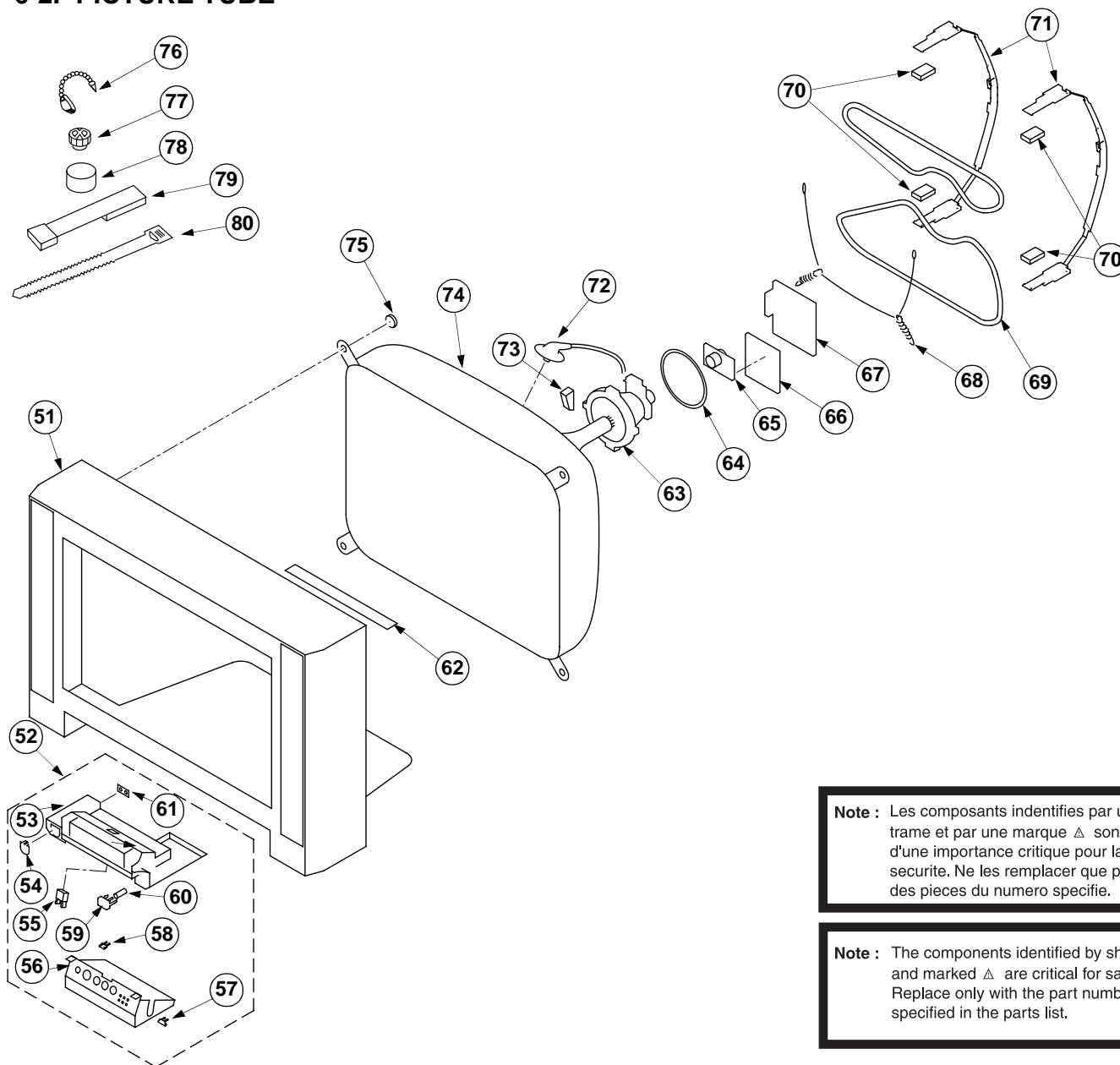
6-1. CHASSIS



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
1	Δ 1-571-433-31	SWITCH, PUSH (AC POWER)		11	*4-204-477-03	BRACKET, J2	
2	*A-1624-085-A	F3 BOARD, COMPLETE		12	1-790-082-11	CABLE, RF	
3	*4-205-196-12	MAIN BRACKET (AE-5A)		13	*A-1620-128-A	BL BOARD, COMPLETE	
4	*A-1640-328-A	D BOARD, COMPLETE (KV-28FQ75)		14	*1-555-716-51	CABLE, PIN	
	*A-1640-323-A	D BOARD, COMPLETE (KV-32FQ75)		15	Δ 1-792-389-11	CORD, POWER (WITH CONNECTOR)	
5	Δ 1-453-340-11	TRANSFORMER ASSY, FLYBACK (NX-4522//U214)				(KV-28FQ75A/28FQ75B/28FQ75D/28FQ75E/ KV-32FQ75A/32FQ75B/32FQ75D/32FQ75E)	
6	*4-204-476-03	BRACKET, J1			Δ 1-792-592-11	CORD POWER (WITH PLUG)	
7	*A-1651-133-A	J BOARD, COMPLETE				(KV-28FQ75U/32FG75U)	
8	*A-1640-382-A	D1 BOARD, COMPLETE (KV-28FQ75)					
	*A-1640-385-A	D1 BOARD, COMPLETE (KV-32FQ75)					
9	*A-1640-383-A	E BOARD, COMPLETE (KV-28FQ75)		16	1-693-338-21	MAIN TUNER/VIF (AEP)	
	*A-1640-384-A	E BOARD, COMPLETE (KV-32FQ75)				(KV-28FQ75A/28FQ75D/28FQ75E/ KV-32FQ75A/32FQ75D/32FQ75E)	
10	*A-1620-130-A	B3 BOARD, COMPLETE					

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
17	1-693-340-21	MAIN TUNER/VIF (FR) (KV-28FQ75B/32FQ75B)		24	1-542-436-11	SPEAKER (24X4.2CM)	
	1-693-339-21	MAIN TUNER/VIF (UK) (KV-28FQ75U/32FQ75U)		25	*A-1678-192-A	WOOFER ASSY (SP) 26-29	
	1-693-338-21	SUB TUNER/VIF (AEP)		26	4-204-775-21	BAFFLE, WOOFER	
		(KV-28FQ75A/28FQ75D/28FQ75E/ KV-32FQ75A/32FQ75D/32FQ75E)		27	4-039-358-01	SCREW (4X16), (+) BV TAPPING	
18	1-693-340-21	SUB TUNER/VIF (FR) (KV-28FQ75B/32FQ75B)		28	1-529-417-11	SPEAKER (8CM)	
	1-693-339-21	SUB TUNER/VIF (UK) (KV-28FQ75U/32FQ75U)		29	4-204-776-21	BOX, WOOFER	
19	*A-1624-086-A	F1 BOARD, COMPLETE		30	4-205-544-01	COVER, REAR (KV-28FQ75)	
20	*A-1634-054-A	M1 BOARD, COMPLETE			4-205-272-01	REAR COVER (KV-32FQ75)	
21	*A-1631-094-A	A BOARD, COMPLETE					
		(KV-28FQ75A/28FQ75D/28FQ75E/ KV-32FQ75A/32FQ75D/32FQ75E)					
	*A-1631-098-A	A BOARD, COMPLETE (KV-28FQ75B/32FQ75B)					
	*A-1631-102-A	A BOARD, COMPLETE (KV-28FQ75U/32FQ75U)					
22	*A-1646-210-A	H5 BOARD, COMPLETE					
23	*A-1646-211-A	H6 BOARD, COMPLETE					
	1-542-437-11	TWEETER (2CM)					

6-2. PICTURE TUBE



Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces du numéro spécifié.

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

REF. NO.	PART. NO	DESCRIPTION	REMARK	REF. NO.	PART. NO	DESCRIPTION	REMARK
51	X-4200-609-1	BEZNET ASSY (KV-28FQ75)		64	1-419-363-11	COIL, NA ROTATION	
	X-4200-576-1	BEZNET ASSY (KV-32FQ75)		65	Δ 8-453-011-11	NECK ASSY, (NA299-M)	
52	A-1610-072-A	FRONT CONTROL ASSY	53-61	66	*A-1644-108-A	VM BOARD, COMPLETE	
53	*4-205-558-11	BRACKET, CONTROL		67	*A-1638-139-A	C BOARD, COMPLETE	
54	4-205-561-11	WINDOW, ORNAMENTAL		68	4-200-433-01	SPRING, EXTENSION	
55	4-047-464-01	CATCHER, PUSH		69	Δ 1-416-466-11	COIL, DEMAGNETIC (KV-28FQ75)	
56	*4-205-559-11	BRACKET DOOR			Δ 1-416-769-11	COIL, DEMAGNETIC (KV-32FQ75)	
57	3-022-410-01	DAMPER		70	4-203-390-41	CUSHION, DGC	
58	3-703-035-11	SHAFT, LID		71	*4-057-308-01	HOLDER, DGC (KV-28FQ75)	
59	4-205-560-11	BUTTON, POWER			*4-059-569-01	HOLDER, DGC (KV-32FQ75)	
60	4-202-964-11	SPRING		72	Δ 1-251-807-22	CAP ASSY, HIGH-VOLTAGE	
61	4-205-562-11	GUIDE, LIGHT		73	4-203-658-01	SPACER, DY	
62	4-204-636-01	SHEET, BLOTING		74	Δ 8-737-786-05	PICTURE TUBE (W66LLX060X) (KV-28FQ75)	
63	Δ 1-451-481-11	DEFLECTION YOKE (Y28RVC2) (KV-28FQ75)			Δ 8-735-054-05	PICTURE TUBE (W76LLX060X) (KV-32FQ75)	
	Δ 1-451-480-11	DEFLECTION YOKE (Y32RVC2) (KV-32FQ75)					

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
75	4-036-188-12	SCREW, TAPPING (KV-28FQ75)		78	1-452-032-00	MAGNET, DISK; 10MM	
	4-204-225-01	PT-SCREW (KV-32FQ75)		79	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
76	4-308-870-00	CLIP, LEAD WIRE		80	3-701-007-00	BAND, BINDING	
77	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM					

SECTION 7 ELECTRICAL PARTS LIST

PARTS LISTING TABLE OF CONTENTS

	<u>Page</u>
F3 BOARD COMPLETE Parts List :	114
H5 BOARD COMPLETE Parts List :	114
H6 BOARD COMPLETE Parts List :	114
BL BOARD COMPLETE Parts List :	114
B3 BOARD COMPLETE Parts List :	119
F1 BOARD COMPLETE Parts List :	126
A BOARD COMMON Parts List : Parts common to all models listed in this manual	126
A BOARD VARIANT Parts List : Parts that belong only to the model specified	
<u>Model</u>	
KV-28FQ75A/28FQ75D/28FQ75E/32FQ75A/32FQ75D/28FQ75E	129
KV-28FQ75B/32FQ75B	129
KV-28FQ75U/32FQ75U	130
M1 BOARD COMPLETE Parts List :	130
C BOARD COMPLETE Parts List :	132
D BOARD COMMON Parts List : Parts common to all models listed in this manual	134
D BOARD VARIANT Parts List : Parts that belong only to the model specified	
<u>Model</u>	
KV-28FQ75	138
KV-32FQ75	138
E BOARD COMMON Parts List : Parts common to all models listed in this manual	138
E BOARD VARIANT Parts List : Parts that belong only to the model specified	
<u>Model</u>	
KV-32FQ75	140
D1 BOARD COMMON Parts List : Parts common to all models listed in this manual	140
D1 BOARD VARIANT Parts List : Parts that belong only to the model specified	
<u>Model</u>	
KV-28FQ75	144
KV-32FQ75	144
J BOARD COMMON Parts List : Parts common to all models listed in this manual	145
VM BOARD COMPLETE Parts List :	152
MISCELLANEOUS :	154
ACCESSORIES AND PACKAGING MATERIALS :	154

Note : Refer to the designated variant parts list when seeking a part indicated by an asterisk (*)
 Parts indicated (#) on the Schematic Diagram are not used in this model and therefore do not appear in the Parts List.

REF. NO.	PART.NO	DESCRIPTION			REMARK
*A-1624-085-A F3 Board, Complete					
< CONNECTOR >					
CN7700	△ *1-695-292-11	PIN, CONNECTOR (POWER)			
CN7733	△ *1-580-844-11	PIN, CONNECTOR (POWER)			
< SWITCH >					
S7751	△ 1-571-433-31	SWITCH, PUSH (AC POWER)			
*A-1646-210-A H5 Board, Complete					
< CAPACITOR >					
C7900	1-101-810-00	CERAMIC	100PF	5.00%	500V
C7901	1-101-810-00	CERAMIC	100PF	5.00%	500V
C7925	1-137-372-11	MYLAR	0.022UF	5.00%	50V
C7926	1-137-372-11	MYLAR	0.022UF	5.00%	50V
< CONNECTOR >					
CN7102	*1-564-518-11	PLUG, CONNECTOR 3P			
CN7103	*1-564-526-11	PLUG, CONNECTOR 11P			
< SOCKET >					
J7900	1-794-442-11	TERMINAL BLOCK (LIGHT ANGLE) ,S			
J7925	1-785-448-11	JACK			
< COIL >					
L7925	1-414-183-41	INDUCTOR	10UH		
L7926	1-414-183-41	INDUCTOR	10UH		
< RESISTOR >					
R7100	1-249-425-11	CARBON	4.7K	5%	1/4W
R7101	1-249-429-11	CARBON	10K	5%	1/4W
R7102	1-249-421-11	CARBON	2.2K	5%	1/4W
R7103	1-249-429-11	CARBON	10K	5%	1/4W
R7104	1-249-425-11	CARBON	4.7K	5%	1/4W
R7105	1-249-421-11	CARBON	2.2K	5%	1/4W
R7900	1-535-303-00	LEAD, JUMPER (5.0MM)			
R7901	1-249-417-11	CARBON	1K	5%	1/4W
R7902	1-247-895-91	CARBON	470K	5%	1/4W
R7903	1-247-895-91	CARBON	470K	5%	1/4W
R7904	1-535-303-00	LEAD, JUMPER (5.0MM)			
R7905	1-249-417-11	CARBON	1K	5%	1/4W
R7906	1-535-303-00	LEAD, JUMPER (5.0MM)			
< SWITCH >					
S7100	1-771-947-11	SWITCH, TACTILE			

REF.NO.	PART.NO	DESCRIPTION			REMARK
S7101	1-771-947-11	SWITCH, TACTILE			
S7102	1-771-947-11	SWITCH, TACTILE			
*A-1646-211-A H6 Board, Complete					
< CAPACITOR >					
C7150	1-126-969-11	ELECT	220UF	20.00%	50V
< CONNECTOR >					
CN7100	*1-564-519-11	PLUG, CONNECTOR 4P			
< DIODE >					
D7125	*4-203-258-11	HOLDER, LED			
D7150	8-719-030-11	DIODE SLA-570KT3F			
< IC >					
IC7150	8-749-014-59	IC TSOP1740KS1			
< RESISTOR >					
R7150	1-247-815-91	CARBON	220	5%	1/4W
R7151	1-249-411-11	CARBON	330	5%	1/4W
*A-1620-128-A BL Board, Complete					
< CAPACITOR >					
C2300	1-164-222-11	CERAMIC CHIP	0.22UF		25V
C2301	1-164-222-11	CERAMIC CHIP	0.22UF		25V
C2302	1-164-222-11	CERAMIC CHIP	0.22UF		25V
C2303	1-164-222-11	CERAMIC CHIP	0.22UF		25V
C2304	1-164-222-11	CERAMIC CHIP	0.22UF		25V
C2305	1-104-664-11	ELECT	47UF	20.00%	16V
C2306	1-104-664-11	ELECT	47UF	20.00%	16V
C2307	1-104-664-11	ELECT	47UF	20.00%	16V
C2308	1-126-933-11	ELECT	100UF	20.00%	16V
C2309	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2310	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2311	1-163-259-91	CERAMIC CHIP	220PF	5.00%	50V
C2312	1-163-259-91	CERAMIC CHIP	220PF	5.00%	50V
C2313	1-163-259-91	CERAMIC CHIP	220PF	5.00%	50V
C2314	1-163-259-91	CERAMIC CHIP	220PF	5.00%	50V
C2317	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2320	1-104-664-11	ELECT	47UF	20.00%	16V
C2321	1-104-664-11	ELECT	47UF	20.00%	16V
C2322	1-104-664-11	ELECT	47UF	20.00%	16V
C2323	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2324	1-163-038-91	CERAMIC CHIP	0.1UF		25V

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C2325	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C2536	1-104-664-11	ELECT 47UF	20.00% 16V
C2326	1-163-105-00	CERAMIC CHIP 33PF	5.00% 50V	C2537	1-104-664-11	ELECT 47UF	20.00% 16V
C2327	1-163-105-00	CERAMIC CHIP 33PF	5.00% 50V	C2538	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2328	1-163-105-00	CERAMIC CHIP 33PF	5.00% 50V	C2539	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2329	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C2540	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C2330	1-104-664-11	ELECT 47UF	20.00% 16V	C2541	1-163-135-00	CERAMIC CHIP 560PF	5.00% 50V
C2331	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C2542	1-163-255-11	CERAMIC CHIP 150PF	5.00% 50V
C2332	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C2543	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V
C2338	1-104-664-11	ELECT 47UF	20.00% 16V	C2544	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C2342	1-104-664-11	ELECT 47UF	20.00% 16V	C2545	1-163-113-00	CERAMIC CHIP 68PF	5.00% 50V
C2344	1-104-664-11	ELECT 47UF	20.00% 16V	C2546	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2347	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C2547	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2348	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C2548	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V
C2349	1-104-664-11	ELECT 47UF	20.00% 16V	C2550	1-163-229-11	CERAMIC CHIP 12PF	5.00% 50V
C2350	1-104-664-11	ELECT 47UF	20.00% 16V	C2567	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2351	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C2572	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2352	1-104-664-11	ELECT 47UF	20.00% 16V	< CONNECTOR >			
C2353	1-163-237-11	CERAMIC CHIP 27PF	5.00% 50V	CN2301	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
C2355	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	< DIODE >			
C2501	1-126-964-11	ELECT 10UF	20.00% 50V	D2502	8-719-914-43	DIODE DAN202K-T-146	
C2502	1-126-964-11	ELECT 10UF	20.00% 50V	D2503	8-719-914-43	DIODE DAN202K-T-146	
C2504	1-163-255-11	CERAMIC CHIP 150PF	5.00% 50V	D2504	8-719-914-43	DIODE DAN202K-T-146	
C2505	1-163-255-11	CERAMIC CHIP 150PF	5.00% 50V	< DELAY LINE >			
C2506	1-163-253-11	CERAMIC CHIP 120PF	5.00% 50V	DL2501	1-234-515-11	FILTER, LOW PASS	
C2507	1-163-253-11	CERAMIC CHIP 120PF	5.00% 50V	DL2502	1-234-515-11	FILTER, LOW PASS	
C2508	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	< FILTER >			
C2509	1-126-933-91	ELECT 100UF	20.00% 16V	FL2300	1-234-479-11	FILTER, LOW PASS	
C2510	1-126-933-91	ELECT 100UF	20.00% 16V	FL2301	1-236-071-11	ENCAPSULATED COMPONENT	
C2511	1-165-319-11	CERAMIC CHIP 0.1UF	50V	FL2501	1-234-515-11	FILTER, LOW PASS	
C2512	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	< IC >			
C2513	1-165-319-11	CERAMIC CHIP 0.1UF	50V	IC2301	8-752-067-36	IC CXA1815S	
C2515	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	IC2501	8-759-710-86	IC NJM2233BM(Te2)	
C2516	1-126-964-11	ELECT 10UF	20.00% 50V	IC2502	8-759-190-29	IC BA7655AF-E1	
C2518	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	IC2503	8-759-710-24	IC NJM319M-TE2	
C2519	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	IC2504	8-759-708-05	IC TA78L005AP-TPE6	
C2521	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	IC2505	8-752-072-94	IC CXA1875AM-T4	
C2522	1-126-967-11	ELECT 47UF	20.00% 50V	< COIL >			
C2523	1-165-319-11	CERAMIC CHIP 0.1UF	50V	L2300	1-414-183-41	INDUCTOR 10UH	
C2524	1-126-964-11	ELECT 10UF	20.00% 50V	L2301	1-410-435-21	INDUCTOR 220UH	
C2525	1-126-964-11	ELECT 10UF	20.00% 50V	L2302	1-410-435-21	INDUCTOR 220UH	
C2526	1-126-964-11	ELECT 10UF	20.00% 50V				
C2528	1-165-319-11	CERAMIC CHIP 0.1UF	50V				
C2529	1-163-259-91	CERAMIC CHIP 220PF	5.00% 50V				
C2530	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V				
C2531	1-165-319-11	CERAMIC CHIP 0.1UF	50V				
C2533	1-126-964-11	ELECT 10UF	20.00% 50V				
C2535	1-104-664-11	ELECT 47UF	20.00% 16V				



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
L2303	1-410-427-11	INDUCTOR	47UH	Q2345	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L2321	1-216-295-91	SHORT	0	Q2504	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L2322	1-216-295-91	SHORT	0	Q2506	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L2323	1-216-295-91	SHORT	0	Q2507	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L2501	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q2508	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L2502	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q2509	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
L2503	1-410-426-11	INDUCTOR	39UH	Q2510	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
L2504	1-410-431-11	INDUCTOR	100UH	Q2511	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L2505	1-410-431-11	INDUCTOR	100UH	Q2512	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L2506	1-408-615-31	INDUCTOR	100UH	Q2513	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L2507	1-408-615-31	INDUCTOR	100UH	Q2514	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L2508	1-408-605-31	INDUCTOR	15UH	Q2515	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L2509	1-410-419-21	INDUCTOR	10UH	Q2516	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L2510	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q2517	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L2512	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q2518	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
< TRANSISTOR >				Q2519	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2300	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2520	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2301	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2521	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
Q2302	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2522	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2306	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		Q2523	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2307	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2524	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2308	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2525	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2309	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2526	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2316	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		Q2527	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2318	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		Q2528	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2319	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		Q2529	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2320	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2530	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
Q2322	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2531	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2323	1-801-806-11	TRANSISTOR DTC144EKA-T146		Q2532	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2324	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		Q2533	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2325	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2534	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2326	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		Q2555	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
Q2327	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2566	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
Q2331	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2568	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2332	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q2571	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
Q2333	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		< RESISTOR >			
Q2334	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R2301	1-216-017-91	RES-CHIP	47 5% 1/10W
Q2335	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R2302	1-216-043-91	RES-CHIP	560 5% 1/10W
Q2336	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R2303	1-216-045-00	RES-CHIP	680 5% 1/10W
Q2337	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R2304	1-216-045-00	RES-CHIP	680 5% 1/10W
Q2338	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R2305	1-216-047-91	RES-CHIP	820 5% 1/10W
Q2339	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R2306	1-216-037-00	RES-CHIP	330 5% 1/10W
Q2340	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R2307	1-216-037-00	RES-CHIP	330 5% 1/10W
Q2341	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R2308	1-535-143-21	LEAD, JUMPER	(12.5MM)
Q2342	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R2309	1-535-143-11	LEAD, JUMPER	(12.5MM)
Q2344	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R2310	1-216-671-11	METAL CHIP	6.8K 0.5% 1/10W

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R2311	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R2370	1-216-651-11	METAL CHIP	1K 0.5% 1/10W
R2312	1-216-671-11	METAL CHIP	6.8K 0.5% 1/10W	R2371	1-216-662-11	METAL CHIP	3K 0.5% 1/10W
R2315	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R2372	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
R2316	1-216-663-11	METAL CHIP	3.3K 0.5% 1/10W	R2373	1-216-651-11	METAL CHIP	1K 0.5% 1/10W
R2317	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2374	1-216-662-11	METAL CHIP	3K 0.5% 1/10W
R2318	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2375	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
R2321	1-216-041-00	RES-CHIP	470 5% 1/10W	R2383	1-216-295-91	SHORT	0
R2322	1-216-041-00	RES-CHIP	470 5% 1/10W	R2385	1-216-025-91	RES-CHIP	100 5% 1/10W
R2323	1-216-041-00	RES-CHIP	470 5% 1/10W	R2386	1-216-643-11	METAL CHIP	470 0.5% 1/10W
R2325	1-216-025-91	RES-CHIP	100 5% 1/10W	R2387	1-216-649-11	METAL CHIP	820 0.5% 1/10W
R2329	1-216-025-91	RES-CHIP	100 5% 1/10W	R2389	1-216-081-00	RES-CHIP	22K 5% 1/10W
R2330	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2390	1-216-081-00	RES-CHIP	22K 5% 1/10W
R2331	1-216-025-91	RES-CHIP	100 5% 1/10W	R2391	1-216-041-00	RES-CHIP	470 5% 1/10W
R2332	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2392	1-216-025-91	RES-CHIP	100 5% 1/10W
R2333	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2393	1-216-643-11	METAL CHIP	470 0.5% 1/10W
R2334	1-216-017-91	RES-CHIP	47 5% 1/10W	R2394	1-216-651-11	METAL CHIP	1K 0.5% 1/10W
R2335	1-216-017-91	RES-CHIP	47 5% 1/10W	R2397	1-216-081-00	RES-CHIP	22K 5% 1/10W
R2336	1-216-017-91	RES-CHIP	47 5% 1/10W	R2398	1-216-081-00	RES-CHIP	22K 5% 1/10W
R2337	1-216-017-91	RES-CHIP	47 5% 1/10W	R2399	1-216-041-00	RES-CHIP	470 5% 1/10W
R2338	1-216-017-91	RES-CHIP	47 5% 1/10W	R2400	1-216-025-91	RES-CHIP	100 5% 1/10W
R2339	1-216-017-91	RES-CHIP	47 5% 1/10W	R2401	1-216-081-00	RES-CHIP	22K 5% 1/10W
R2340	1-216-017-91	RES-CHIP	47 5% 1/10W	R2402	1-216-089-91	RES-CHIP	47K 5% 1/10W
R2341	1-216-017-91	RES-CHIP	47 5% 1/10W	R2403	1-216-041-00	RES-CHIP	470 5% 1/10W
R2342	1-216-025-91	RES-CHIP	100 5% 1/10W	R2404	1-216-041-00	RES-CHIP	470 5% 1/10W
R2343	1-216-025-91	RES-CHIP	100 5% 1/10W	R2407	1-216-041-00	RES-CHIP	470 5% 1/10W
R2344	1-216-017-91	RES-CHIP	47 5% 1/10W	R2408	1-216-295-91	SHORT	0
R2345	1-216-017-91	RES-CHIP	47 5% 1/10W	R2411	1-216-049-91	RES-CHIP	1K 5% 1/10W
R2346	1-216-017-91	RES-CHIP	47 5% 1/10W	R2413	1-216-641-11	METAL CHIP	390 0.5% 1/10W
R2347	1-216-017-91	RES-CHIP	47 5% 1/10W	R2414	1-216-295-91	SHORT	0
R2348	1-216-017-91	RES-CHIP	47 5% 1/10W	R2415	1-216-647-11	METAL CHIP	680 0.5% 1/10W
R2351	1-216-025-91	RES-CHIP	100 5% 1/10W	R2418	1-216-025-91	RES-CHIP	100 5% 1/10W
R2352	1-216-025-91	RES-CHIP	100 5% 1/10W	R2421	1-216-049-91	RES-CHIP	1K 5% 1/10W
R2353	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2422	1-216-295-91	SHORT	0
R2354	1-216-017-91	RES-CHIP	47 5% 1/10W	R2423	1-216-029-00	RES-CHIP	150 5% 1/10W
R2355	1-216-017-91	RES-CHIP	47 5% 1/10W	R2424	1-216-039-00	RES-CHIP	390 5% 1/10W
R2356	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2425	1-216-041-00	RES-CHIP	470 5% 1/10W
R2357	1-216-017-91	RES-CHIP	47 5% 1/10W	R2426	1-216-035-00	RES-CHIP	270 5% 1/10W
R2358	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2427	1-216-035-00	RES-CHIP	270 5% 1/10W
R2359	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R2428	1-216-045-00	RES-CHIP	680 5% 1/10W
R2360	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R2432	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R2361	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R2436	1-216-025-91	RES-CHIP	100 5% 1/10W
R2362	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R2437	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
R2364	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2502	1-216-669-11	METAL CHIP	5.6K 0.5% 1/10W
R2366	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2503	1-216-667-11	METAL CHIP	4.7K 0.5% 1/10W
R2367	1-216-041-00	RES-CHIP	470 5% 1/10W	R2505	1-216-649-11	METAL CHIP	820 0.5% 1/10W
R2368	1-216-039-00	RES-CHIP	390 5% 1/10W	R2506	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R2369	1-216-037-00	RES-CHIP	330 5% 1/10W	R2511	1-216-053-00	RES-CHIP	1.5K 5% 1/10W



REF.NO.	PART.NO	DESCRIPTION	REMARK			REF.NO.	PART.NO	DESCRIPTION	REMARK		
R2513	1-216-637-11	METAL CHIP	270	0.5%	1/10W	R2565	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
R2514	1-216-059-00	RES-CHIP	2.7K	5%	1/10W	R2566	1-216-648-11	METAL CHIP	750	0.5%	1/10W
R2515	1-216-643-11	METAL CHIP	470	0.5%	1/10W	R2567	1-216-049-91	RES-CHIP	1K	5%	1/10W
R2516	1-216-649-11	METAL CHIP	820	0.5%	1/10W	R2568	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R2517	1-216-643-11	METAL CHIP	470	0.5%	1/10W	R2569	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R2518	1-216-643-11	METAL CHIP	470	0.5%	1/10W	R2570	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2519	1-216-643-11	METAL CHIP	470	0.5%	1/10W	R2571	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R2521	1-216-651-11	METAL CHIP	1K	0.5%	1/10W	R2572	1-216-653-11	METAL CHIP	1.2K	0.5%	1/10W
R2522	1-216-025-91	RES-CHIP	100	5%	1/10W	R2573	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R2523	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R2574	1-216-295-91	SHORT	0		
R2525	1-216-055-00	RES-CHIP	1.8K	5%	1/10W	R2575	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R2526	1-216-033-00	RES-CHIP	220	5%	1/10W	R2576	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R2528	1-216-033-00	RES-CHIP	220	5%	1/10W	R2577	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2529	1-216-055-00	RES-CHIP	1.8K	5%	1/10W	R2578	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2530	1-216-049-91	RES-CHIP	1K	5%	1/10W	R2579	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R2531	1-216-631-11	METAL CHIP	150	0.5%	1/10W	R2580	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2532	1-216-073-00	RES-CHIP	10K	5%	1/10W	R2581	1-216-643-11	METAL CHIP	470	0.5%	1/10W
R2534	1-216-049-91	RES-CHIP	1K	5%	1/10W	R2582	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R2535	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R2583	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2536	1-216-653-11	METAL CHIP	1.2K	0.5%	1/10W	R2584	1-216-049-91	RES-CHIP	1K	5%	1/10W
R2537	1-216-059-00	RES-CHIP	2.7K	5%	1/10W	R2585	1-216-081-00	RES-CHIP	22K	5%	1/10W
R2538	1-216-645-11	METAL CHIP	560	0.5%	1/10W	R2586	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2539	1-216-059-00	RES-CHIP	2.7K	5%	1/10W	R2587	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2540	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R2588	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2541	1-216-653-11	METAL CHIP	1.2K	0.5%	1/10W	R2589	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2542	1-216-647-11	METAL CHIP	680	0.5%	1/10W	R2590	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R2543	1-216-647-11	METAL CHIP	680	0.5%	1/10W	R2591	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2544	1-216-645-11	METAL CHIP	560	0.5%	1/10W	R2592	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2545	1-216-623-11	METAL CHIP	68	0.5%	1/10W	R2593	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2546	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W	R2594	1-216-643-11	METAL CHIP	470	0.5%	1/10W
R2547	1-216-641-11	METAL CHIP	390	0.5%	1/10W	R2611	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R2548	1-216-645-11	METAL CHIP	560	0.5%	1/10W	R2614	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R2549	1-216-623-11	METAL CHIP	68	0.5%	1/10W	R2615	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
R2551	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W	R2617	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R2552	1-216-615-91	METAL CHIP	33	0.5%	1/10W	R2640	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R2553	1-216-645-11	METAL CHIP	560	0.5%	1/10W	R2644	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R2554	1-216-651-11	METAL CHIP	1K	0.5%	1/10W	R2649	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R2555	1-216-073-00	RES-CHIP	10K	5%	1/10W	R2661	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R2556	1-216-645-11	METAL CHIP	560	0.5%	1/10W	R2662	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
R2557	1-216-063-91	RES-CHIP	3.9K	5%	1/10W	R2664	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R2558	1-216-073-00	RES-CHIP	10K	5%	1/10W	R2666	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R2559	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W	R2676	1-216-295-91	SHORT	0		
R2560	1-216-643-11	METAL CHIP	470	0.5%	1/10W	R2678	1-216-295-91	SHORT	0		
R2561	1-216-653-11	METAL CHIP	1.2K	0.5%	1/10W	R2680	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R2562	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W	R2681	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
R2563	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W	R2684	1-216-639-11	METAL CHIP	330	0.5%	1/10W
R2564	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W	R2687	1-216-049-91	RES-CHIP	1K	5%	1/10W

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R2688	1-216-295-91	SHORT	0	C361	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
R2691	1-216-295-91	SHORT	0	C362	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R2692	1-216-295-91	SHORT	0	C363	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
R2698	1-216-295-91	SHORT	0	C501	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R2699	1-216-295-91	SHORT	0	C502	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
*A-1620-130-A B3 Board, Complete				C503	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
< CAPACITOR >				C505	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C302	1-104-601-11	ELECT CHIP 10UF	20.00% 10V	C507	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C305	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C509	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C306	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C510	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C309	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C511	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C310	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C512	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C312	1-163-275-11	CERAMIC CHIP 0.001UF	5.00% 50V	C514	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C313	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C515	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C314	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C516	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C315	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	C517	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C316	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C518	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C317	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C519	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C318	1-124-779-00	ELECT CHIP 10UF	20.00% 16V	C520	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C319	1-124-779-00	ELECT CHIP 10UF	20.00% 16V	C521	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C320	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C522	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C321	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C523	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C323	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C524	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C324	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C525	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C325	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C526	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C327	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C527	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C330	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C528	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C331	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C530	1-216-295-91	SHORT	0
C332	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C532	1-216-295-91	SHORT	0
C333	1-216-295-91	SHORT	0	C534	1-216-295-91	SHORT	0
C337	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C538	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C338	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C539	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C339	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C540	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C340	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C542	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C341	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C543	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C346	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C545	1-126-396-11	ELECT CHIP 47UF	20.00% 16V
C347	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C546	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C349	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C548	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C350	1-126-204-11	ELECT CHIP 47UF	20.00% 16V	C549	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C353	1-126-204-11	ELECT CHIP 47UF	20.00% 16V	C550	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C354	1-104-601-11	ELECT CHIP 10UF	20.00% 10V	C551	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C355	1-104-601-11	ELECT CHIP 10UF	20.00% 10V	C554	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C357	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C555	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C358	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C556	1-126-392-11	ELECT CHIP 100UF	20.00% 6.3V
C359	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C557	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C360	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V	C559	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
				C560	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C601	1-124-779-00	ELECT CHIP 10UF	20.00% 16V	C705	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C602	1-126-394-11	ELECT CHIP 10UF	20.00% 16V	C706	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C603	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C707	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C604	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C708	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C605	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C709	1-110-501-11	CERAMIC CHIP 0.33UF	10.00% 16V
C606	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C710	1-163-019-00	CERAMIC CHIP 0.0068UF	10.00% 50V
C607	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C711	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C608	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C712	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C609	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C713	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C610	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C714	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C611	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C715	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C612	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C716	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C613	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C717	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C614	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C718	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C615	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C719	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C616	1-126-396-11	ELECT CHIP 47UF	20.00% 16V	C722	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C617	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C723	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C618	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C724	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C619	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C725	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C620	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C726	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C621	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C727	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C622	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C728	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C623	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C729	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C624	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C730	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C625	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C735	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C626	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C738	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C627	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C739	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V
C628	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C740	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V
C629	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C801	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C630	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C802	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C631	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C803	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C632	1-126-206-11	ELECT CHIP 100UF	20.00% 6.3V	C804	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C633	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C806	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C634	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C807	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C635	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C808	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C636	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C809	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C637	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C810	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C638	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C811	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C639	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C812	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C640	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C813	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C642	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C814	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C643	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C815	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C644	1-126-603-11	ELECT CHIP 4.7UF	20.00% 35V	C816	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C645	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C817	1-163-229-11	CERAMIC CHIP 12PF	5.00% 50V
C646	1-163-243-11	CERAMIC CHIP 47PF	5.00% 50V	C818	1-163-229-11	CERAMIC CHIP 12PF	5.00% 50V
C703	1-126-394-11	ELECT CHIP 10UF	20.00% 16V	C819	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C704	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C820	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C821	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	FB802	1-414-766-21	IND FERRITE 0UH	
C822	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V				
C823	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V			< FILTER >	
C824	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V				
C825	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	FL304	1-234-177-21	FILTER, CHIP EMI	
				FL305	1-234-177-21	FILTER, CHIP EMI	
C826	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V	FL306	1-239-558-11	FILTER, CHIP EMI	
C827	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	FL501	1-233-877-11	FILTER, LOW PASS	
C829	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	FL502	1-233-504-21	FILTER, LOW PASS	
C834	1-163-038-91	CERAMIC CHIP 0.1UF	25V				
C835	1-163-038-91	CERAMIC CHIP 0.1UF	25V	FL503	1-233-504-21	FILTER, LOW PASS	
				FL504	1-234-177-21	FILTER, CHIP EMI	
C837	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	FL505	1-234-177-21	FILTER, CHIP EMI	
C839	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	FL506	1-234-177-21	FILTER, CHIP EMI	
C840	1-126-206-11	ELECT CHIP 100UF	20.00% 6.3V	FL508	1-234-177-21	FILTER, CHIP EMI	
C841	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V				
C842	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	FL509	1-234-177-21	FILTER, CHIP EMI	
				FL510	1-234-177-21	FILTER, CHIP EMI	
C843	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	FL511	1-234-177-21	FILTER, CHIP EMI	
C844	1-163-038-91	CERAMIC CHIP 0.1UF	25V	FL512	1-234-177-21	FILTER, CHIP EMI	
C848	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V	FL601	1-234-177-21	FILTER, CHIP EMI	
C849	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V				
C850	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	FL602	1-234-177-21	FILTER, CHIP EMI	
				FL603	1-234-177-21	FILTER, CHIP EMI	
C851	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	FL606	1-239-560-11	FILTER, CHIP EMI	
C852	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	FL701	1-234-177-21	FILTER, CHIP EMI	
C901	1-163-038-91	CERAMIC CHIP 0.1UF	25V	FL703	1-234-177-21	FILTER, CHIP EMI	
C902	1-163-038-91	CERAMIC CHIP 0.1UF	25V				
C903	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	FL704	1-234-177-21	FILTER, CHIP EMI	
				FL705	1-234-177-21	FILTER, CHIP EMI	
C904	1-124-779-00	ELECT CHIP 10UF	20.00% 16V	FL801	1-234-177-21	FILTER, CHIP EMI	
C905	1-109-982-11	CERAMIC CHIP 1UF	10.00% 10V	FL802	1-234-177-21	FILTER, CHIP EMI	
C906	1-124-779-00	ELECT CHIP 10UF	20.00% 16V	FL803	1-234-177-21	FILTER, CHIP EMI	
C907	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V				
				FL804	1-234-177-21	FILTER, CHIP EMI	
	< CONNECTOR >			FL805	1-234-177-21	FILTER, CHIP EMI	
CN502	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P		FL806	1-234-177-21	FILTER, CHIP EMI	
				FL807	1-234-177-21	FILTER, CHIP EMI	
	< DIODE >			FL808	1-234-177-21	FILTER, CHIP EMI	
				FL810	1-234-177-21	FILTER, CHIP EMI	
D301	8-719-041-97	DIODE MA113-(TX)		FL901	1-234-509-21	FILTER, LOW PASS	
D302	8-719-041-97	DIODE MA113-(TX)		FL902	1-233-876-11	FILTER, LOW PASS	
D501	8-719-422-12	DIODE UDZ-TE-17-3.9B		FL903	1-233-876-11	FILTER, LOW PASS	
				FL904	1-234-177-21	FILTER, CHIP EMI	
	< FERRITE BEAD >						
				FL905	1-234-177-21	FILTER, CHIP EMI	
FB501	1-414-234-21	FERRITE 0UH					
FB502	1-414-234-21	FERRITE 0UH				< IC >	
FB503	1-414-234-21	FERRITE 0UH					
FB504	1-414-234-21	FERRITE 0UH		IC302	8-752-388-98	IC CXD2303AQ-TL	
FB601	1-414-766-21	IND FERRITE 0UH		IC303	8-752-088-27	IC CXA3266Q-T6	
				IC304	8-759-285-51	IC PC74HC00D-T	
FB701	1-414-766-21	IND FERRITE 0UH		IC305	8-759-232-74	IC SN74HC163ANSR	
FB702	1-414-766-21	IND FERRITE 0UH		IC306	8-759-232-74	IC SN74HC163ANSR	
FB801	1-414-766-21	IND FERRITE 0UH					

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
IC307	8-759-084-79	IC TC7S14F(TE85R)		Q517	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
IC308	8-759-084-79	IC TC7S14F(TE85R)		Q518	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
IC309	8-759-640-16	IC TC7SET04F(TE85R)		Q519	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC310	8-759-285-52	IC PC74HC02D-T		Q520	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC311	8-759-708-05	IC TA78L005AP-TPE6		Q521	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
IC501	8-759-447-90	IC TLC5733AIPM		Q522	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
IC504	8-759-430-32	IC TLC2933IPWR		Q523	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
IC505	8-759-640-16	IC TC7SET04F(TE85R)		Q524	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
IC506	8-759-640-16	IC TC7SET04F(TE85R)		Q601	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
IC601	8-752-398-47	IC CXD2090Q		Q602	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
IC602	8-759-665-38	IC MB81F161622C-80FN		Q901	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
IC603	8-759-295-09	IC TLC2932IPW-E20		Q902	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
IC604	8-752-072-94	IC CXA1875AM-T4		Q903	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
IC701	8-759-640-18	IC TMC57127-MMP-54		Q904	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
IC704	8-759-640-17	IC MSM534031E-22GS-KR1		Q905	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
IC705	8-759-242-70	IC TC7WU04F(TE12R)		Q907	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
IC801	8-759-592-40	IC CXD9509Q		Q908	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
IC802	8-759-595-53	IC MB81F643242B-10FN		Q909	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
IC901	8-752-369-84	IC CXD2309Q-T6		< RESISTOR >			
< COIL >				R302	1-216-013-00	RES-CHIP 33 5% 1/10W	
L302	1-412-029-11	INDUCTOR CHIP 10UH		R303	1-216-667-11	METAL CHIP 4.7K 0.5% 1/10W	
L303	1-412-029-11	INDUCTOR CHIP 10UH		R305	1-216-049-91	RES-CHIP 1K 5% 1/10W	
L501	1-412-026-11	INDUCTOR CHIP 1UH		R306	1-216-658-11	METAL CHIP 2K 0.5% 1/10W	
L502	1-412-026-11	INDUCTOR CHIP 1UH		R309	1-216-009-91	RES-CHIP 22 5% 1/10W	
L503	1-412-026-11	INDUCTOR CHIP 1UH		R310	1-216-009-91	RES-CHIP 22 5% 1/10W	
L504	1-412-026-11	INDUCTOR CHIP 1UH		R311	1-216-009-91	RES-CHIP 22 5% 1/10W	
L505	1-412-029-11	INDUCTOR CHIP 10UH		R313	1-216-009-91	RES-CHIP 22 5% 1/10W	
L506	1-412-026-11	INDUCTOR CHIP 1UH		R316	1-216-009-91	RES-CHIP 22 5% 1/10W	
L508	1-412-029-11	INDUCTOR CHIP 10UH		R318	1-216-009-91	RES-CHIP 22 5% 1/10W	
L509	1-412-029-11	INDUCTOR CHIP 10UH		R319	1-216-049-91	RES-CHIP 1K 5% 1/10W	
L511	1-412-026-11	INDUCTOR CHIP 1UH		R321	1-216-009-91	RES-CHIP 22 5% 1/10W	
L512	1-412-026-11	INDUCTOR CHIP 1UH		R323	1-216-009-91	RES-CHIP 22 5% 1/10W	
L604	1-412-029-11	INDUCTOR CHIP 10UH		R324	1-216-009-91	RES-CHIP 22 5% 1/10W	
L605	1-412-029-11	INDUCTOR CHIP 10UH		R325	1-216-073-00	RES-CHIP 10K 5% 1/10W	
< TRANSISTOR >				R328	1-216-025-91	RES-CHIP 100 5% 1/10W	
Q301	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R330	1-216-037-00	RES-CHIP 330 5% 1/10W	
Q302	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R331	1-216-033-00	RES-CHIP 220 5% 1/10W	
Q303	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R332	1-216-037-00	RES-CHIP 330 5% 1/10W	
Q501	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R333	1-216-295-91	SHORT 0	
Q502	8-729-120-28	TRANSISTOR 2SC2412K-T-146-S		R335	1-216-013-00	RES-CHIP 33 5% 1/10W	
Q503	8-729-120-28	TRANSISTOR 2SC2412K-T-146-S		R336	1-216-013-00	RES-CHIP 33 5% 1/10W	
Q510	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R337	1-216-097-91	RES-CHIP 100K 5% 1/10W	
Q511	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R338	1-216-295-91	SHORT 0	
Q512	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R339	1-216-295-91	SHORT 0	
Q516	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R340	1-216-073-00	RES-CHIP 10K 5% 1/10W	
				R341	1-216-295-91	SHORT 0	

REF. NO.	PART.NO	DESCRIPTION	REMARK			REF. NO.	PART.NO	DESCRIPTION	REMARK		
R342	1-216-295-91	SHORT	0			R559	1-216-077-91	RES-CHIP	15K	5%	1/10W
R344	1-216-295-91	SHORT	0			R560	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R345	1-216-073-00	RES-CHIP	10K	5%	1/10W	R561	1-216-043-91	RES-CHIP	560	5%	1/10W
R347	1-216-295-91	SHORT	0			R562	1-216-043-91	RES-CHIP	560	5%	1/10W
R350	1-216-295-91	SHORT	0			R563	1-216-043-91	RES-CHIP	560	5%	1/10W
R501	1-216-025-91	RES-CHIP	100	5%	1/10W	R571	1-216-295-91	SHORT	0		
R502	1-216-025-91	RES-CHIP	100	5%	1/10W	R572	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R503	1-216-295-91	SHORT	0			R573	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R504	1-216-295-91	SHORT	0			R574	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R505	1-216-295-91	SHORT	0			R575	1-216-625-11	METAL CHIP	82	0.5%	1/10W
R506	1-216-025-91	RES-CHIP	100	5%	1/10W	R576	1-216-625-11	METAL CHIP	82	0.5%	1/10W
R507	1-216-025-91	RES-CHIP	100	5%	1/10W	R577	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R508	1-216-025-91	RES-CHIP	100	5%	1/10W	R578	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R509	1-216-025-91	RES-CHIP	100	5%	1/10W	R579	1-216-077-91	RES-CHIP	15K	5%	1/10W
R510	1-216-043-91	RES-CHIP	560	5%	1/10W	R580	1-216-295-91	SHORT	0		
R511	1-216-043-91	RES-CHIP	560	5%	1/10W	R582	1-216-041-00	RES-CHIP	470	5%	1/10W
R512	1-216-043-91	RES-CHIP	560	5%	1/10W	R584	1-216-041-00	RES-CHIP	470	5%	1/10W
R513	1-216-043-91	RES-CHIP	560	5%	1/10W	R594	1-216-041-00	RES-CHIP	470	5%	1/10W
R514	1-216-043-91	RES-CHIP	560	5%	1/10W	R596	1-216-049-91	RES-CHIP	1K	5%	1/10W
R515	1-216-043-91	RES-CHIP	560	5%	1/10W	R597	1-216-073-00	RES-CHIP	10K	5%	1/10W
R516	1-216-049-91	RES-CHIP	1K	5%	1/10W	R600	1-216-066-00	RES-CHIP	5.1K	5%	1/10W
R517	1-216-049-91	RES-CHIP	1K	5%	1/10W	R601	1-216-073-00	RES-CHIP	10K	5%	1/10W
R518	1-216-295-91	SHORT	0			R602	1-216-073-00	RES-CHIP	10K	5%	1/10W
R520	1-216-645-11	METAL CHIP	560	0.5%	1/10W	R603	1-216-073-00	RES-CHIP	10K	5%	1/10W
R521	1-216-295-91	SHORT	0			R604	1-216-033-00	RES-CHIP	220	5%	1/10W
R523	1-216-645-11	METAL CHIP	560	0.5%	1/10W	R605	1-216-295-91	SHORT	0		
R524	1-216-295-91	SHORT	0			R608	1-216-295-91	SHORT	0		
R526	1-216-645-11	METAL CHIP	560	0.5%	1/10W	R609	1-216-073-00	RES-CHIP	10K	5%	1/10W
R528	1-216-037-00	RES-CHIP	330	5%	1/10W	R610	1-216-033-00	RES-CHIP	220	5%	1/10W
R529	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W	R611	1-216-073-00	RES-CHIP	10K	5%	1/10W
R530	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W	R612	1-216-073-00	RES-CHIP	10K	5%	1/10W
R531	1-216-031-00	RES-CHIP	180	5%	1/10W	R613	1-216-073-00	RES-CHIP	10K	5%	1/10W
R532	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W	R616	1-216-073-00	RES-CHIP	10K	5%	1/10W
R533	1-216-031-00	RES-CHIP	180	5%	1/10W	R617	1-216-295-91	SHORT	0		
R536	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R618	1-216-295-91	SHORT	0		
R537	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W	R619	1-216-073-00	RES-CHIP	10K	5%	1/10W
R540	1-216-049-91	RES-CHIP	1K	5%	1/10W	R621	1-216-295-91	SHORT	0		
R548	1-216-619-11	METAL CHIP	47	0.5%	1/10W	R622	1-216-295-91	SHORT	0		
R549	1-216-619-11	METAL CHIP	47	0.5%	1/10W	R623	1-216-295-91	SHORT	0		
R550	1-216-625-11	METAL CHIP	82	0.5%	1/10W	R625	1-216-295-91	SHORT	0		
R551	1-216-625-11	METAL CHIP	82	0.5%	1/10W	R626	1-216-073-00	RES-CHIP	10K	5%	1/10W
R552	1-216-619-11	METAL CHIP	47	0.5%	1/10W	R628	1-216-295-91	SHORT	0		
R553	1-216-295-91	SHORT	0			R629	1-216-073-00	RES-CHIP	10K	5%	1/10W
R554	1-216-619-11	METAL CHIP	47	0.5%	1/10W	R631	1-216-295-91	SHORT	0		
R555	1-216-077-91	RES-CHIP	15K	5%	1/10W	R634	1-216-295-91	SHORT	0		
R557	1-216-049-91	RES-CHIP	1K	5%	1/10W	R635	1-216-295-91	SHORT	0		
R558	1-216-025-91	RES-CHIP	100	5%	1/10W	R638	1-216-295-91	SHORT	0		

REF.NO.	PART.NO	DESCRIPTION	REMARK			REF.NO.	PART.NO	DESCRIPTION	REMARK		
R639	1-216-017-91	RES-CHIP	47	5%	1/10W	R696	1-216-049-91	RES-CHIP	1K	5%	1/10W
R640	1-216-009-91	RES-CHIP	22	5%	1/10W	R697	1-216-117-00	RES-CHIP	680K	5%	1/10W
R642	1-216-295-91	SHORT	0			R698	1-216-117-00	RES-CHIP	680K	5%	1/10W
R643	1-216-295-91	SHORT	0			R699	1-216-295-91	SHORT	0		
R645	1-216-295-91	SHORT	0			R703	1-216-295-91	SHORT	0		
R651	1-216-295-91	SHORT	0			R704	1-216-295-91	SHORT	0		
R653	1-216-025-91	RES-CHIP	100	5%	1/10W	R705	1-216-295-91	SHORT	0		
R654	1-216-033-00	RES-CHIP	220	5%	1/10W	R709	1-216-005-00	RES-CHIP	15	5%	1/10W
R655	1-216-295-91	SHORT	0			R710	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R657	1-216-009-91	RES-CHIP	22	5%	1/10W	R712	1-216-049-91	RES-CHIP	1K	5%	1/10W
R658	1-216-049-91	RES-CHIP	1K	5%	1/10W	R713	1-216-295-91	SHORT	0		
R659	1-216-025-91	RES-CHIP	100	5%	1/10W	R714	1-216-121-91	RES-CHIP	1M	5%	1/10W
R660	1-216-025-91	RES-CHIP	100	5%	1/10W	R715	1-216-033-00	RES-CHIP	220	5%	1/10W
R661	1-216-025-91	RES-CHIP	100	5%	1/10W	R801	1-216-009-91	RES-CHIP	22	5%	1/10W
R663	1-216-295-91	SHORT	0			R802	1-216-009-91	RES-CHIP	22	5%	1/10W
R664	1-216-009-91	RES-CHIP	22	5%	1/10W	R804	1-216-073-00	RES-CHIP	10K	5%	1/10W
R665	1-216-035-00	RES-CHIP	270	5%	1/10W	R806	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R666	1-216-646-11	METAL CHIP	620	0.5%	1/10W	R807	1-216-637-11	METAL CHIP	270	0.5%	1/10W
R667	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W	R812	1-216-073-00	RES-CHIP	10K	5%	1/10W
R668	1-216-009-91	RES-CHIP	22	5%	1/10W	R813	1-216-295-91	SHORT	0		
R669	1-216-295-91	SHORT	0			R814	1-216-073-00	RES-CHIP	10K	5%	1/10W
R670	1-216-295-91	SHORT	0			R815	1-216-073-00	RES-CHIP	10K	5%	1/10W
R671	1-216-073-00	RES-CHIP	10K	5%	1/10W	R816	1-216-073-00	RES-CHIP	10K	5%	1/10W
R672	1-216-073-00	RES-CHIP	10K	5%	1/10W	R817	1-216-613-11	METAL CHIP	27	0.5%	1/10W
R673	1-216-073-00	RES-CHIP	10K	5%	1/10W	R818	1-216-295-91	SHORT	0		
R674	1-216-073-00	RES-CHIP	10K	5%	1/10W	R820	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R675	1-216-073-00	RES-CHIP	10K	5%	1/10W	R822	1-216-295-91	SHORT	0		
R676	1-216-073-00	RES-CHIP	10K	5%	1/10W	R823	1-216-073-00	RES-CHIP	10K	5%	1/10W
R677	1-216-073-00	RES-CHIP	10K	5%	1/10W	R824	1-216-073-00	RES-CHIP	10K	5%	1/10W
R678	1-216-073-00	RES-CHIP	10K	5%	1/10W	R825	1-216-621-11	METAL CHIP	56	0.5%	1/10W
R679	1-216-073-00	RES-CHIP	10K	5%	1/10W	R826	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R680	1-216-073-00	RES-CHIP	10K	5%	1/10W	R827	1-216-607-11	METAL CHIP	15	0.5%	1/10W
R681	1-216-073-00	RES-CHIP	10K	5%	1/10W	R834	1-216-629-11	METAL CHIP	120	0.5%	1/10W
R682	1-216-073-00	RES-CHIP	10K	5%	1/10W	R835	1-216-623-11	METAL CHIP	68	0.5%	1/10W
R683	1-216-073-00	RES-CHIP	10K	5%	1/10W	R836	1-216-611-11	METAL CHIP	22	0.5%	1/10W
R684	1-216-073-00	RES-CHIP	10K	5%	1/10W	R840	1-216-295-91	SHORT	0		
R685	1-216-073-00	RES-CHIP	10K	5%	1/10W	R844	1-216-009-91	RES-CHIP	22	5%	1/10W
R686	1-216-073-00	RES-CHIP	10K	5%	1/10W	R845	1-216-009-91	RES-CHIP	22	5%	1/10W
R687	1-216-295-91	SHORT	0			R846	1-216-009-91	RES-CHIP	22	5%	1/10W
R688	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R847	1-216-009-91	RES-CHIP	22	5%	1/10W
R689	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R848	1-216-009-91	RES-CHIP	22	5%	1/10W
R690	1-216-295-91	SHORT	0			R849	1-216-009-91	RES-CHIP	22	5%	1/10W
R691	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R850	1-216-009-91	RES-CHIP	22	5%	1/10W
R692	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R851	1-216-009-91	RES-CHIP	22	5%	1/10W
R693	1-216-009-91	RES-CHIP	22	5%	1/10W	R852	1-216-009-91	RES-CHIP	22	5%	1/10W
R694	1-216-295-91	SHORT	0			R853	1-216-009-91	RES-CHIP	22	5%	1/10W
R695	1-216-047-91	RES-CHIP	820	5%	1/10W	R854	1-216-009-91	RES-CHIP	22	5%	1/10W

REF. NO.	PART.NO	DESCRIPTION	REMARK			REF. NO.	PART.NO	DESCRIPTION	REMARK		
R855	1-216-009-91	RES-CHIP	22	5%	1/10W	R904	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R856	1-216-009-91	RES-CHIP	22	5%	1/10W	R905	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R857	1-216-009-91	RES-CHIP	22	5%	1/10W	R906	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R858	1-216-009-91	RES-CHIP	22	5%	1/10W	R907	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R859	1-216-009-91	RES-CHIP	22	5%	1/10W	R908	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R860	1-216-009-91	RES-CHIP	22	5%	1/10W	R909	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R861	1-216-009-91	RES-CHIP	22	5%	1/10W	R910	1-216-049-91	RES-CHIP	1K	5%	1/10W
R862	1-216-009-91	RES-CHIP	22	5%	1/10W	R911	1-216-049-91	RES-CHIP	1K	5%	1/10W
R863	1-216-009-91	RES-CHIP	22	5%	1/10W	R912	1-216-049-91	RES-CHIP	1K	5%	1/10W
R864	1-216-009-91	RES-CHIP	22	5%	1/10W	R914	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R865	1-216-009-91	RES-CHIP	22	5%	1/10W	R916	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R866	1-216-009-91	RES-CHIP	22	5%	1/10W	R917	1-216-295-91	SHORT	0		
R867	1-216-009-91	RES-CHIP	22	5%	1/10W	R919	1-216-295-91	SHORT	0		
R868	1-216-009-91	RES-CHIP	22	5%	1/10W	R939	1-216-295-91	SHORT	0		
R869	1-216-009-91	RES-CHIP	22	5%	1/10W	R940	1-216-295-91	SHORT	0		
R870	1-216-009-91	RES-CHIP	22	5%	1/10W	R941	1-216-295-91	SHORT	0		
R871	1-216-009-91	RES-CHIP	22	5%	1/10W	R942	1-216-037-00	RES-CHIP	330	5%	1/10W
R872	1-216-009-91	RES-CHIP	22	5%	1/10W	R943	1-216-033-00	RES-CHIP	220	5%	1/10W
R873	1-216-009-91	RES-CHIP	22	5%	1/10W	R951	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R874	1-216-009-91	RES-CHIP	22	5%	1/10W	R952	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R875	1-216-009-91	RES-CHIP	22	5%	1/10W	R956	1-216-089-91	RES-CHIP	47K	5%	1/10W
R876	1-216-009-91	RES-CHIP	22	5%	1/10W	R957	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R877	1-216-009-91	RES-CHIP	22	5%	1/10W	R958	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R878	1-216-009-91	RES-CHIP	22	5%	1/10W	R959	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R879	1-216-009-91	RES-CHIP	22	5%	1/10W	R960	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R880	1-216-009-91	RES-CHIP	22	5%	1/10W	R961	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R881	1-216-009-91	RES-CHIP	22	5%	1/10W	R962	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R882	1-216-009-91	RES-CHIP	22	5%	1/10W	R979	1-216-295-91	SHORT	0		
R883	1-216-009-91	RES-CHIP	22	5%	1/10W	R981	1-216-037-00	RES-CHIP	330	5%	1/10W
R884	1-216-009-91	RES-CHIP	22	5%	1/10W	R982	1-216-037-00	RES-CHIP	330	5%	1/10W
R885	1-216-009-91	RES-CHIP	22	5%	1/10W	R983	1-216-089-91	RES-CHIP	47K	5%	1/10W
R886	1-216-009-91	RES-CHIP	22	5%	1/10W	R984	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R887	1-216-009-91	RES-CHIP	22	5%	1/10W	R985	1-216-113-00	RES-CHIP	470K	5%	1/10W
R888	1-216-009-91	RES-CHIP	22	5%	1/10W	R986	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R889	1-216-009-91	RES-CHIP	22	5%	1/10W	R987	1-216-049-91	RES-CHIP	1K	5%	1/10W
R890	1-216-009-91	RES-CHIP	22	5%	1/10W	R988	1-216-033-00	RES-CHIP	220	5%	1/10W
R891	1-216-009-91	RES-CHIP	22	5%	1/10W	R989	1-216-081-00	RES-CHIP	22K	5%	1/10W
R892	1-216-009-91	RES-CHIP	22	5%	1/10W	R990	1-216-113-00	RES-CHIP	470K	5%	1/10W
R893	1-216-009-91	RES-CHIP	22	5%	1/10W	R991	1-216-295-91	SHORT	0		
R894	1-216-009-91	RES-CHIP	22	5%	1/10W	R993	1-216-089-91	RES-CHIP	47K	5%	1/10W
R895	1-216-009-91	RES-CHIP	22	5%	1/10W	R994	1-216-033-00	RES-CHIP	220	5%	1/10W
R896	1-216-009-91	RES-CHIP	22	5%	1/10W	R995	1-216-033-00	RES-CHIP	220	5%	1/10W
R897	1-216-009-91	RES-CHIP	22	5%	1/10W	R996	1-216-037-00	RES-CHIP	330	5%	1/10W
R898	1-216-009-91	RES-CHIP	22	5%	1/10W	R997	1-216-037-00	RES-CHIP	330	5%	1/10W
R901	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R998	1-216-073-00	RES-CHIP	10K	5%	1/10W
R902	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W	R2801	1-216-629-11	METAL CHIP	120	0.5%	1/10W
R903	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W	R2802	1-216-623-11	METAL CHIP	68	0.5%	1/10W

B3

F1

A

The components identified by shading and marked Δ are critical for safety
Replace only with the part number specified.

REF.NO.	PART.NO	DESCRIPTION	REMARK
R2803	1-216-603-11	METAL CHIP	10 0.5% 1/10W
R2804	1-216-627-11	METAL CHIP	100 0.5% 1/10W
R2805	1-216-623-11	METAL CHIP	68 0.5% 1/10W
R2806	1-216-611-11	METAL CHIP	22 0.5% 1/10W
R2809	1-216-295-91	SHORT	0
R2810	1-216-295-91	SHORT	0
R2813	1-216-295-91	SHORT	0
R2815	1-216-295-91	SHORT	0
R2817	1-216-295-91	SHORT	0
R2818	1-216-295-91	SHORT	0
R2820	1-216-295-91	SHORT	0
R2822	1-216-295-91	SHORT	0
< RESISTOR NETWORK >			
RB001	1-239-412-11	NETWORK RESISTOR (CHIP)	100
RB002	1-239-412-11	NETWORK RESISTOR (CHIP)	100
RB003	1-239-412-11	NETWORK RESISTOR (CHIP)	100
RB004	1-239-412-11	NETWORK RESISTOR (CHIP)	100
RB005	1-239-412-11	NETWORK RESISTOR (CHIP)	100
RB006	1-239-412-11	NETWORK RESISTOR (CHIP)	100
RB007	1-239-414-11	NETWORK RESISTOR (CHIP)	150
RB008	1-239-414-11	NETWORK RESISTOR (CHIP)	150
RB009	1-239-414-11	NETWORK RESISTOR (CHIP)	150
RB010	1-239-414-11	NETWORK RESISTOR (CHIP)	150
RB011	1-239-414-11	NETWORK RESISTOR (CHIP)	150
RB012	1-239-414-11	NETWORK RESISTOR (CHIP)	150
RB013	1-239-621-11	NETWORK RESISTOR (CHIP)	22
RB014	1-239-621-11	NETWORK RESISTOR (CHIP)	22
RB015	1-239-621-11	NETWORK RESISTOR (CHIP)	22
RB016	1-239-621-11	NETWORK RESISTOR (CHIP)	22
RB017	1-239-621-11	NETWORK RESISTOR (CHIP)	22
RB018	1-239-621-11	NETWORK RESISTOR (CHIP)	22
RB019	1-239-409-11	NETWORK RESISTOR (CHIP)	47
RB020	1-239-409-11	NETWORK RESISTOR (CHIP)	47
RB021	1-239-409-11	NETWORK RESISTOR (CHIP)	47
RB022	1-239-409-11	NETWORK RESISTOR (CHIP)	47
RB023	1-239-409-11	NETWORK RESISTOR (CHIP)	47
RB024	1-239-409-11	NETWORK RESISTOR (CHIP)	47
RB025	1-239-409-11	NETWORK RESISTOR (CHIP)	47
RB026	1-239-409-11	NETWORK RESISTOR (CHIP)	47
RB027	1-239-409-11	NETWORK RESISTOR (CHIP)	47
RB301	1-239-621-11	NETWORK RESISTOR (CHIP)	22
RB302	1-239-621-11	NETWORK RESISTOR (CHIP)	22
< CRYSTAL >			
X702	1-781-889-21	VIBRATOR, CRYSTAL	
X801	1-781-649-21	OSCILLATOR, CRYSTAL	

REF.NO.	PART.NO	DESCRIPTION	REMARK
X802	1-781-650-21	VIBRATOR, CRYSTAL	
*A-1624-086-A F1 Board, Complete			
*4-374-846-01 COVER, CAPACITOR, CAP TYPE			
< CAPACITOR >			
C7626	Δ 1-136-527-12	FILM	0.47UF 20.00% 300V
< CONNECTOR >			
CN7611	Δ *1-580-843-11	PIN, CONNECTOR (POWER)	
CN7622	1-695-915-11	TAB (CONTACT)	
CN7633	Δ *1-580-843-11	PIN, CONNECTOR (POWER)	
CN7655	1-695-915-11	TAB (CONTACT)	
< FUSE >			
F7626	Δ 1-576-232-11	FUSE (H.B.C.)	5A/250V
	Δ 1-533-725-11	HOLDER, FUSE (F7626)	
< RESISTOR >			
R7626	Δ 1-202-719-00	SOLID	1M 20% 1/2W
R7627	Δ 1-220-797-11	CEMENTED	0.47 5% 10W
< TRANSFORMER >			
LF7627	Δ 1-433-488-11	TRANSFORMER, LINE FILTER	
< VARISTOR >			
VD7626	Δ 1-801-268-51	VARISTOR ERZV14D471	
*A-1631-094-A A Board, Complete (KV-28FQ75A/28FQ75D/28FQ75E KV-32FQ75A/32FQ75D/32FQ75E)			
*A-1631-098-A A Board, Complete (KV-28FQ75B/32FQ75B)			
*A-1631-102-A A Board, Complete (KV-28FQ75U/32FQ75U)			
A Board, Common Parts			
4-382-854-11 SCREW (M3X10), P, SW (+)			
*4-931-401-01 HEAT SINK, V.OUT			
< CAPACITOR >			
C1100	1-104-664-11	ELECT	47UF 20.00% 25V
C1101	1-126-943-11	ELECT	2200UF 20.00% 25V
C1126	1-162-568-11	CERAMIC CHIP	0.33UF 10.00% 16V
C1127	1-137-194-81	MYLAR	0.47UF 5.00% 50V
C1128	1-163-135-00	CERAMIC CHIP	560PF 5.00% 50V

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C1129	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V	C1605	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1130	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V	C1610	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1131	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	C1611	1-126-933-11	ELECT 100UF	20.00% 16V
C1132	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C1612	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1133	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C1613	1-126-933-11	ELECT 100UF	20.00% 16V
C1134	1-126-961-11	ELECT 2.2UF	20.00% 50V	C1615	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1135	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C1617	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1136	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C1630	1-126-925-11	ELECT 470UF	20.00% 10V
C1137	1-126-953-11	ELECT 2200UF	20.00% 35V	C1631	1-126-925-11	ELECT 470UF	20.00% 10V
C1138	1-126-953-11	ELECT 2200UF	20.00% 35V	C1632	1-136-495-11	MYLAR 0.068UF	5.00% 50V
C1140	1-111-216-91	ELECT 150UF	20.00% 63V	C1633	1-136-495-11	MYLAR 0.068UF	5.00% 50V
C1141	1-164-505-11	CERAMIC CHIP 2.2UF	16V	C1636	1-126-916-11	ELECT 1000UF	20.00% 6.3V
C1142	1-130-777-00	MYLAR 0.1UF	5.00% 63V	C1637	1-126-916-11	ELECT 1000UF	20.00% 6.3V
C1151	1-162-568-11	CERAMIC CHIP 0.33UF	10.00% 16V	C1638	1-126-935-11	ELECT 470UF	20.00% 6.3V
C1152	1-137-194-81	MYLAR 0.47UF	5.00% 50V	C1639	1-126-935-11	ELECT 470UF	20.00% 6.3V
C1153	1-163-135-00	CERAMIC CHIP 560PF	5.00% 50V	< CONNECTOR >			
C1154	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V	CN1111	*1-564-520-11	PLUG, CONNECTOR 5P	
C1155	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V	CN1200	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
C1156	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	CN1301	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C1157	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	CN1401	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C1158	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN1600	1-900-903-64	CONNECTOR ASSY 20P	
C1159	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN1601	1-900-903-64	CONNECTOR ASSY 20P	
C1160	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN1602	1-900-903-64	CONNECTOR ASSY 20P	
C1162	1-111-216-91	ELECT 150UF	20.00% 63V	CN1666	1-695-915-11	TAB (CONTACT)	
C1163	1-164-505-11	CERAMIC CHIP 2.2UF	16V	CN1700	*1-568-879-11	PIN, CONNECTOR 4P	
C1164	1-130-777-00	MYLAR 0.1UF	5.00% 63V	CN1702	*1-568-878-51	PIN, CONNECTOR 3P	
C1176	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN1703	1-764-334-11	PLUG, CONNECTOR 11P	
C1177	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN1801	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
C1178	1-126-964-11	ELECT 10UF	20.00% 50V	CN1811	1-695-915-11	TAB (CONTACT)	
C1179	1-126-964-11	ELECT 10UF	20.00% 50V	CN1901	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C1180	1-126-952-11	ELECT 1000UF	20.00% 35V	CN1902	*1-568-879-11	PIN, CONNECTOR 4P	
C1181	1-126-952-11	ELECT 1000UF	20.00% 35V	CN1988	*1-568-879-11	PIN, CONNECTOR 4P	
C1182	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	< COMPOSITION CIRCUIT BLOCK >			
C1183	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CP1300	1-251-658-11	SPLITTER RF	
C1184	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	< DIODE >			
C1185	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	D1100	8-719-914-43	DIODE DAN202K-T-146	
C1226	1-104-661-91	ELECT 330UF	20.00% 16V	D1101	8-719-914-44	DIODE DAP202K-T-146	
C1227	1-164-505-11	CERAMIC CHIP 2.2UF	16V	D1102	8-719-914-43	DIODE DAN202K-T-146	
C1300	1-126-933-11	ELECT 100UF	20.00% 16V	D1103	8-719-914-43	DIODE DAN202K-T-146	
C1301	1-163-059-91	CERAMIC CHIP 0.01UF	10.00% 50V	D1104	8-719-914-43	DIODE DAN202K-T-146	
C1326	1-163-059-91	CERAMIC CHIP 0.01UF	10.00% 50V	D1201	8-719-976-96	DIODE UDZ-TE-17-4.7B	
C1327	1-163-059-91	ELECT 220UF	20.00% 10V	D1202	8-719-421-57	DIODE MA73-TX	
C1328	1-163-117-00	CERAMIC CHIP 100PF	5.00% 50V	D1401	8-719-056-82	DIODE UDZ-TE-17-6.2B	
C1350	1-163-059-91	CERAMIC CHIP 0.01UF	10.00% 50V	D1402	8-719-056-82	DIODE UDZ-TE-17-6.2B	
C1351	1-126-934-11	ELECT 220UF	20.00% 10V				
C1601	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V				
C1603	1-126-933-11	ELECT 100UF	20.00% 16V				

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
D1405	8-719-914-44	DIODE DAP202K-T-146		L1631	1-419-249-11	INDUCTOR 15UH	
D1406	8-719-914-43	DIODE DAN202K-T-146		L1632	1-419-249-11	INDUCTOR 15UH	
D1407	8-719-158-15	DIODE UDZ-TE-17-5.6B		L1633	1-419-249-11	INDUCTOR 15UH	
D1408	8-719-158-15	DIODE UDZ-TE-17-5.6B		L1634	1-412-525-31	INDUCTOR 10UH	
D1601	8-719-056-83	DIODE UDZ-TE-17-6.8B		L1635	1-412-525-31	INDUCTOR 10UH	
D1602	8-719-914-43	DIODE DAN202K-T-146		< TRANSISTOR >			
D1626	8-719-914-43	DIODE DAN202K-T-146		Q1100	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
D1627	8-719-914-43	DIODE DAN202K-T-146		Q1101	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
D1630	8-719-500-70	DIODE D5S4M		Q1201	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
D1631	8-719-500-70	DIODE D5S4M		Q1202	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
< FERRITE BEAD >				Q1204	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
FB1126	1-535-303-00	LEAD, JUMPER (5.0MM)		Q1226	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
FB1127	1-410-397-21	FERRITE 1.1UH		Q1227	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
FB1151	1-535-303-00	LEAD, JUMPER (5.0MM)		Q1229	8-729-027-38	TRANSISTOR DTA144EKA-T146	
FB1152	1-410-397-21	FERRITE 1.1UH		Q1300	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FB1401	1-414-234-22	INDUCTOR CHIP 0UH		Q1326	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
FB1630	1-535-303-00	LEAD, JUMPER (5.0MM)		Q1327	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
FB1631	1-535-303-00	LEAD, JUMPER (5.0MM)		Q1328	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
FB1901	1-414-553-11	FERRITE 0UH		Q1329	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
FB1903	1-414-553-11	FERRITE 0UH		Q1350	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
FB1904	1-414-553-11	FERRITE 0UH		Q1351	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
FB1905	1-414-553-11	FERRITE 0UH		Q1601	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
FB1906	1-414-553-11	FERRITE 0UH		Q1602	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
FB1907	1-414-553-11	FERRITE 0UH		Q1626	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
< IC >				< RESISTOR >			
IC1126	8-759-544-25	IC TDA7482		JR1203	1-216-296-91	SHORT 0	
IC1151	8-759-544-25	IC TDA7482		JR1401	1-216-295-91	SHORT 0	
IC1176	8-759-333-24	IC LM1876TF		JR1402	1-216-295-91	SHORT 0	
IC1400	8-752-072-94	IC CXA1875AM-T4		R1100	1-216-025-91	RES-CHIP 100 5% 1/10W	
IC1601	8-759-574-76	IC KA78R05-SYDTU		R1101	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
IC1604	8-759-544-13	IC KA78R09-YDTU		R1102	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
IC1605	8-759-574-76	IC KA78R05-SYDTU		R1103	1-216-089-91	RES-CHIP 47K 5% 1/10W	
IC1630	8-759-640-19	IC PQ1CG2032FZ		R1104	1-216-296-91	SHORT 0	
IC1631	8-759-640-19	IC PQ1CG2032FZ		R1126	1-216-631-11	METAL CHIP 150 0.5% 1/10W	
< COIL >				R1127	1-216-073-00	RES-CHIP 10K 5% 1/10W	
L1126	1-416-857-11	INDUCTOR 65UH		R1128	1-216-041-00	RES-CHIP 470 5% 1/10W	
L1127	1-414-158-11	INDUCTOR 2.2UH		R1129	1-249-422-11	CARBON 2.7K 5% 1/4W	
L1128	1-414-158-11	INDUCTOR 2.2UH		R1151	1-216-631-11	METAL CHIP 150 0.5% 1/10W	
L1151	1-416-857-11	INDUCTOR 65UH		R1152	1-216-075-00	RES-CHIP 12K 5% 1/10W	
L1152	1-414-158-11	INDUCTOR 2.2UH		R1153	1-216-041-00	RES-CHIP 470 5% 1/10W	
L1153	1-414-158-11	INDUCTOR 2.2UH		R1154	1-249-422-11	CARBON 2.7K 5% 1/4W	
L1300	1-414-183-41	INDUCTOR 10UH		R1174	1-249-422-11	CARBON 2.7K 5% 1/4W	
L1326	1-414-183-41	INDUCTOR 10UH		R1175	1-249-422-11	CARBON 2.7K 5% 1/4W	
L1350	1-414-183-41	INDUCTOR 10UH		R1176	1-216-063-91	RES-CHIP 3.9K 5% 1/10W	
L1630	1-419-249-11	INDUCTOR 15UH		R1177	1-216-063-91	RES-CHIP 3.9K 5% 1/10W	

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R1178	1-216-357-00	METAL OXIDE	4.7 5% 1W	R1355	1-216-041-00	RES-CHIP	470 5% 1/10W
R1179	1-216-357-00	METAL OXIDE	4.7 5% 1W	R1356	1-216-041-00	RES-CHIP	470 5% 1/10W
R1180	1-216-081-00	RES-CHIP	22K 5% 1/10W	R1357	1-216-041-00	RES-CHIP	470 5% 1/10W
R1181	1-216-045-00	RES-CHIP	680 5% 1/10W	R1405	1-216-025-91	RES-CHIP	100 5% 1/10W
R1182	1-216-081-00	RES-CHIP	22K 5% 1/10W	R1406	1-216-025-91	RES-CHIP	100 5% 1/10W
R1183	1-216-045-00	RES-CHIP	680 5% 1/10W	R1407	1-216-025-91	RES-CHIP	100 5% 1/10W
R1184	1-216-089-91	RES-CHIP	47K 5% 1/10W	R1408	1-216-025-91	RES-CHIP	100 5% 1/10W
R1185	1-216-089-91	RES-CHIP	47K 5% 1/10W	R1409	1-216-025-91	RES-CHIP	100 5% 1/10W
R1201	1-216-089-91	RES-CHIP	47K 5% 1/10W	R1410	1-216-025-91	RES-CHIP	100 5% 1/10W
R1202	1-216-083-00	RES-CHIP	27K 5% 1/10W	R1411	1-216-295-91	SHORT	0
R1203	1-216-083-00	RES-CHIP	27K 5% 1/10W	R1412	1-216-295-91	SHORT	0
R1204	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R1413	1-216-025-91	RES-CHIP	100 5% 1/10W
R1205	1-216-089-91	RES-CHIP	47K 5% 1/10W	R1420	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1206	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1425	1-216-025-91	RES-CHIP	100 5% 1/10W
R1208	1-216-089-91	RES-CHIP	47K 5% 1/10W	R1601	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1209	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R1602	1-216-691-11	METAL CHIP	47K 0.5% 1/10W
R1210	1-216-089-91	RES-CHIP	47K 5% 1/10W	R1609	1-216-089-91	RES-CHIP	47K 5% 1/10W
R1226	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1610	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R1227	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1611	1-216-049-91	RES-CHIP	1K 5% 1/10W
R1228	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1612	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1229	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1613	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1230	1-216-055-00	RES-CHIP	1.8K 5% 1/10W	R1617	1-216-295-91	SHORT	0
R1232	1-216-295-91	SHORT	0	R1618	1-216-295-91	SHORT	0
R1233	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1630	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R1300	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1631	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R1301	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1632	1-216-651-11	METAL CHIP	1K 0.5% 1/10W
R1326	1-216-025-91	RES-CHIP	100 5% 1/10W	R1633	1-216-652-11	METAL CHIP	1.1K 0.5% 1/10W
R1327	1-216-025-91	RES-CHIP	100 5% 1/10W	R1634	1-216-650-11	METAL CHIP	910 0.5% 1/10W
R1328	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1635	1-216-656-11	METAL CHIP	1.6K 0.5% 1/10W
R1329	1-216-025-91	RES-CHIP	100 5% 1/10W	A Board Variant Parts KV-28FQ75A/28FQ75D/28FQ75E KV-32FQ75A/32FQ75D/32FQ75E			
R1330	1-216-041-00	RES-CHIP	470 5% 1/10W				
R1331	1-216-041-00	RES-CHIP	470 5% 1/10W	< TUNER >			
R1332	1-216-041-00	RES-CHIP	470 5% 1/10W	TU1326	1-693-338-21	TUNER/VIF (AEP)	
R1333	1-216-075-00	RES-CHIP	12K 5% 1/10W	TU1350	1-693-338-21	TUNER/VIF (AEP)	
R1334	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	A Board Variant Parts KV-28FQ75B/32FQ75B			
R1335	1-216-025-91	RES-CHIP	100 5% 1/10W				
R1336	1-216-041-00	RES-CHIP	470 5% 1/10W	< CAPACITOR >			
R1337	1-216-041-00	RES-CHIP	470 5% 1/10W	C1186	1-115-339-11	CERAMIC CHIP 0.01UF	10.00% 50V
R1338	1-216-001-00	RES-CHIP	10 5% 1/10W	C1187	1-115-339-11	CERAMIC CHIP 0.01UF	10.00% 50V
R1339	1-216-041-00	RES-CHIP	470 5% 1/10W	< TUNER >			
R1340	1-216-043-91	RES-CHIP	560 5% 1/10W	TU1326	1-693-340-21	TUNER/VIF (FR)	
R1342	1-216-073-00	RES-CHIP	10K 5% 1/10W	TU1350	1-693-340-21	TUNER/VIF (FR)	
R1350	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R1351	1-216-025-91	RES-CHIP	100 5% 1/10W				
R1352	1-216-025-91	RES-CHIP	100 5% 1/10W				
R1353	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R1354	1-216-025-91	RES-CHIP	100 5% 1/10W				

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
A Board Variant Parts KV-28FQ75U/32FQ75U							
< TUNER >							
TU1326	1-693-339-21	TUNER/VIF (UK)		C9511	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
TU1350	1-693-339-21	TUNER/VIF (UK)		C9512	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
*A-1634-054-A M1 Board, Complete				C9513	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
< CAPACITOR >				C9514	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C9100	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	C9515	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C9101	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V				
C9102	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	C9516	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C9104	1-104-664-11	ELECT 47UF	20.00% 25V	C9517	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
C9105	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C9518	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V
				C9519	1-126-964-11	ELECT 10UF	20.00% 50V
C9110	1-165-321-11	CERAMIC CHIP 0.68UF	10.00% 16V	C9520	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C9111	1-164-157-11	CERAMIC CHIP 0.068UF	10.00% 25V	< CONNECTOR >			
C9112	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN9101	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
C9113	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	< DIODE >			
C9114	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D9100	8-719-988-61	DIODE 1SS355TE-17	
				D9101	8-719-988-61	DIODE 1SS355TE-17	
C9115	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	D9102	8-719-988-61	DIODE 1SS355TE-17	
C9117	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D9103	8-719-988-61	DIODE 1SS355TE-17	
C9118	1-104-664-11	ELECT 47UF	20.00% 25V	D9104	8-719-056-83	DIODE UDZ-TE-17-6.8B	
C9119	1-163-259-91	CERAMIC CHIP 220PF	5.00% 50V				
C9121	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	D9105	8-719-914-43	DIODE DAN202K-T-146	
				D9107	8-719-025-31	DIODE 02CZ5.6-TE85L	
C9122	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	< FILTER >			
C9123	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	FL9101	1-236-071-11	ENCAPSULATED COMPONENT	
C9124	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	FL9500	1-236-071-11	ENCAPSULATED COMPONENT	
C9125	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	FL9501	1-236-071-11	ENCAPSULATED COMPONENT	
C9126	1-163-105-00	CERAMIC CHIP 33PF	5.00% 50V	< IC >			
				IC9100	8-759-988-13	IC LM393PS-E20	
C9127	1-163-105-00	CERAMIC CHIP 33PF	5.00% 50V	IC9104	8-759-259-18	IC MB3793-42PNF-ER	
C9128	1-163-105-00	CERAMIC CHIP 33PF	5.00% 50V	IC9105	8-759-544-30	IC SAB-C161R1-LM	
C9129	1-163-105-00	CERAMIC CHIP 33PF	5.00% 50V	IC9107	8-759-395-27	IC TC55257DFTL-70V-EL	
C9130	1-163-105-00	CERAMIC CHIP 33PF	5.00% 50V	IC9108	8-759-564-06	IC M24C32-MN6T	
C9131	1-163-105-00	CERAMIC CHIP 33PF	5.00% 50V				
C9132	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	IC9109	8-759-597-95	IC M27C800-100K1-AE513	
C9400	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	IC9110	8-759-559-96	IC HEF4094BT	
C9500	1-104-664-11	ELECT 47UF	20.00% 25V	IC9400	8-759-680-29	IC M29F040B-70N1T1	
C9502	1-104-664-11	ELECT 47UF	20.00% 25V	IC9500	8-759-188-33	IC 7400SJX	
C9503	1-126-964-11	ELECT 10UF	20.00% 50V	IC9501	8-759-666-17	IC MSM5116400D-60SJRI	
				IC9502	8-759-665-84	IC SDA5275-3PC02-22	
C9504	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	< COIL >			
C9505	1-104-665-11	ELECT 100UF	20.00% 25V	L9400	1-412-029-11	INDUCTOR CHIP 10UH	
C9506	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	L9401	1-412-029-11	INDUCTOR CHIP 10UH	
C9507	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V				
C9508	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V				
C9509	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V				
C9510	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V				

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
< TRANSISTOR >				R9142	1-216-041-00	RES-CHIP 470 5%	1/10W
Q9100	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R9143	1-216-049-91	RES-CHIP 1K 5%	1/10W
Q9101	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R9144	1-216-057-00	RES-CHIP 2.2K 5%	1/10W
Q9102	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R9145	1-216-049-91	RES-CHIP 1K 5%	1/10W
Q9103	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R9146	1-216-049-91	RES-CHIP 1K 5%	1/10W
Q9105	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R9147	1-216-049-91	RES-CHIP 1K 5%	1/10W
Q9106	8-729-027-46	TRANSISTOR DTC114YKA-T146		R9148	1-216-073-00	RES-CHIP 10K 5%	1/10W
Q9107	8-729-027-46	TRANSISTOR DTC114YKA-T146		R9149	1-216-025-91	RES-CHIP 100 5%	1/10W
Q9108	8-729-027-46	TRANSISTOR DTC114YKA-T146		R9150	1-216-025-91	RES-CHIP 100 5%	1/10W
Q9109	8-729-027-46	TRANSISTOR DTC114YKA-T146		R9151	1-216-025-91	RES-CHIP 100 5%	1/10W
Q9110	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R9153	1-216-025-91	RES-CHIP 100 5%	1/10W
Q9500	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R9159	1-216-069-00	RES-CHIP 6.8K 5%	1/10W
Q9501	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R9161	1-216-069-00	RES-CHIP 6.8K 5%	1/10W
Q9502	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R9162	1-216-069-00	RES-CHIP 6.8K 5%	1/10W
Q9503	1-801-806-11	TRANSISTOR DTC144EKA-T146		R9164	1-216-069-00	RES-CHIP 6.8K 5%	1/10W
Q9504	1-801-806-11	TRANSISTOR DTC144EKA-T146		R9166	1-216-073-00	RES-CHIP 10K 5%	1/10W
< RESISTOR >				R9168	1-216-069-00	RES-CHIP 6.8K 5%	1/10W
R9100	1-216-073-00	RES-CHIP 10K 5%	1/10W	R9172	1-216-069-00	RES-CHIP 6.8K 5%	1/10W
R9101	1-216-033-00	RES-CHIP 220 5%	1/10W	R9173	1-216-295-91	SHORT 0	
R9102	1-216-033-00	RES-CHIP 220 5%	1/10W	R9174	1-216-025-91	RES-CHIP 100 5%	1/10W
R9103	1-216-025-91	RES-CHIP 100 5%	1/10W	R9175	1-216-025-91	RES-CHIP 100 5%	1/10W
R9104	1-216-073-00	RES-CHIP 10K 5%	1/10W	R9176	1-216-025-91	RES-CHIP 100 5%	1/10W
R9105	1-216-073-00	RES-CHIP 10K 5%	1/10W	R9177	1-216-025-91	RES-CHIP 100 5%	1/10W
R9106	1-216-073-00	RES-CHIP 10K 5%	1/10W	R9178	1-216-025-91	RES-CHIP 100 5%	1/10W
R9107	1-216-025-91	RES-CHIP 100 5%	1/10W	R9179	1-216-097-91	RES-CHIP 100K 5%	1/10W
R9108	1-216-025-91	RES-CHIP 100 5%	1/10W	R9184	1-216-025-91	RES-CHIP 100 5%	1/10W
R9109	1-216-073-00	RES-CHIP 10K 5%	1/10W	R9185	1-216-025-91	RES-CHIP 100 5%	1/10W
R9110	1-216-081-00	RES-CHIP 22K 5%	1/10W	R9186	1-216-025-91	RES-CHIP 100 5%	1/10W
R9111	1-216-025-91	RES-CHIP 100 5%	1/10W	R9187	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
R9112	1-216-025-91	RES-CHIP 100 5%	1/10W	R9188	1-216-073-00	RES-CHIP 10K 5%	1/10W
R9113	1-216-033-00	RES-CHIP 220 5%	1/10W	R9189	1-216-025-91	RES-CHIP 100 5%	1/10W
R9114	1-216-083-00	RES-CHIP 27K 5%	1/10W	R9191	1-216-025-91	RES-CHIP 100 5%	1/10W
R9115	1-216-081-00	RES-CHIP 22K 5%	1/10W	R9192	1-216-025-91	RES-CHIP 100 5%	1/10W
R9116	1-216-073-00	RES-CHIP 10K 5%	1/10W	R9193	1-216-097-91	RES-CHIP 100K 5%	1/10W
R9117	1-216-073-00	RES-CHIP 10K 5%	1/10W	R9194	1-216-097-91	RES-CHIP 100K 5%	1/10W
R9119	1-216-073-00	RES-CHIP 10K 5%	1/10W	R9195	1-216-097-91	RES-CHIP 100K 5%	1/10W
R9120	1-216-073-00	RES-CHIP 10K 5%	1/10W	R9196	1-216-073-00	RES-CHIP 10K 5%	1/10W
R9121	1-216-017-91	RES-CHIP 47 5%	1/10W	R9197	1-216-073-00	RES-CHIP 10K 5%	1/10W
R9122	1-216-049-91	RES-CHIP 1K 5%	1/10W	R9500	1-216-295-91	SHORT 0	
R9123	1-216-073-00	RES-CHIP 10K 5%	1/10W	R9501	1-216-295-91	SHORT 0	
R9127	1-216-049-91	RES-CHIP 1K 5%	1/10W	R9502	1-216-295-91	SHORT 0	
R9128	1-216-097-91	RES-CHIP 100K 5%	1/10W	R9504	1-216-041-00	RES-CHIP 470 5%	1/10W
R9135	1-216-295-91	SHORT 0		R9505	1-216-051-00	RES-CHIP 1.2K 5%	1/10W
R9138	1-216-049-91	RES-CHIP 1K 5%	1/10W	R9506	1-216-073-00	RES-CHIP 10K 5%	1/10W
R9140	1-216-057-00	RES-CHIP 2.2K 5%	1/10W	R9507	1-216-097-91	RES-CHIP 100K 5%	1/10W
R9141	1-216-049-91	RES-CHIP 1K 5%	1/10W	R9508	1-216-017-91	RES-CHIP 47 5%	1/10W
				R9509	1-216-049-91	RES-CHIP 1K 5%	1/10W

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R9510	1-216-017-91	RES-CHIP	47 5% 1/10W	C5331	1-163-089-00	CERAMIC CHIP 6PF	0.50PF 50V
R9511	1-216-049-91	RES-CHIP	1K 5% 1/10W	C5332	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V
R9512	1-216-017-91	RES-CHIP	47 5% 1/10W	C5333	1-163-035-00	CERAMIC CHIP 0.047UF	50V
R9513	1-216-017-91	RES-CHIP	47 5% 1/10W	C5334	1-163-113-00	CERAMIC CHIP 68PF	5.00% 50V
R9514	1-216-017-91	RES-CHIP	47 5% 1/10W	C5350	1-107-907-11	ELECT 22UF	20.00% 50V
R9515	1-216-295-91	SHORT	0	C5351	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
R9516	1-216-295-91	SHORT	0	C5352	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
R9517	1-216-295-91	SHORT	0	C5353	1-163-075-00	CERAMIC CHIP 0.047UF	50V
R9518	1-216-049-91	RES-CHIP	1K 5% 1/10W	C5354	1-128-528-11	ELECT 470UF	20.00% 16V
R9519	1-216-039-00	RES-CHIP	390 5% 1/10W	C5355	1-107-967-11	ELECT 1UF	20.00% 400V
R9520	1-216-039-00	RES-CHIP	390 5% 1/10W	C5356	1-136-207-11	MYLAR 0.047UF	10.00% 400V
R9521	1-216-039-00	RES-CHIP	390 5% 1/10W	C5357	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
R9522	1-216-295-91	SHORT	0	C5358	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
R9523	1-216-295-91	SHORT	0	C5359	1-163-035-00	CERAMIC CHIP 0.047UF	50V
R9524	1-216-295-91	SHORT	0	C5360	1-163-113-00	CERAMIC CHIP 68PF	5.00% 50V
R9525	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	C5375	1-107-902-11	ELECT 1UF	20.00% 50V
R9526	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	C5376	1-102-106-00	CERAMIC 100PF	10.00% 50V
R9527	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	C5377	1-104-331-11	CERAMIC 0.0022UF	10.00% 1KV
R9528	1-216-025-91	RES-CHIP	100 5% 1/10W	C5378	1-162-116-00	CERAMIC 680PF	10.00% 2KV
R9529	1-216-025-91	RES-CHIP	100 5% 1/10W	C5379	1-162-114-00	CERAMIC 0.0047UF	2KV
R9530	1-216-025-91	RES-CHIP	100 5% 1/10W	C5380	1-107-652-11	ELECT 10UF	20.00% 250V
R9531	1-216-295-91	SHORT	0	C5381	1-117-214-11	CERAMIC 0.001UF	10.00% 2KV
				C5382	1-162-114-00	CERAMIC 0.0047UF	2KV
< CRYSTAL >				< CONNECTOR >			
X9101	1-781-107-21	VIBRATOR, CERAMIC		CN5400	1-564-511-11	PLUG, CONNECTOR 8P	
X9500	1-760-551-21	VIBRATOR, CERAMIC		CN5511	1-695-915-11	TAB (CONTACT)	
				CN5600	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
*A-1638-139-A C Board, Complete				< DIODE >			
4-382-854-11 SCREW (M3X10), P, SW (+)				D5300	8-719-911-19	DIODE 1SS119-25TD	
< CAPACITOR >				D5302	8-719-901-83	DIODE 1SS83TD	
C5301	1-163-075-00	CERAMIC CHIP 0.047UF	50V	D5325	8-719-911-19	DIODE 1SS119-25TD	
C5302	1-128-528-11	ELECT 470UF	20.00% 16V	D5327	8-719-901-83	DIODE 1SS83TD	
C5303	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V	D5350	8-719-911-19	DIODE 1SS119-25TD	
C5304	1-107-967-11	ELECT 1UF	20.00% 400V	D5351	8-719-991-33	DIODE 1SS133T-77	
C5305	1-136-207-11	MYLAR 0.047UF	10.00% 400V	D5353	8-719-901-83	DIODE 1SS83TD	
C5306	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V	D5375	8-719-991-33	DIODE 1SS133T-77	
C5307	1-163-233-11	CERAMIC CHIP 18PF	5.00% 50V	D5376	8-719-991-33	DIODE 1SS133T-77	
C5308	1-163-089-00	CERAMIC CHIP 6PF	0.50PF 50V	D5377	8-719-908-03	DIODE GP08DPKG23	
C5309	1-163-035-00	CERAMIC CHIP 0.047UF	50V	D5378	8-719-921-88	DIODE MTZJ-T-77-13B	
C5310	1-163-113-00	CERAMIC CHIP 68PF	5.00% 50V	D5379	8-719-982-96	DIODE MTZJ-T-77-2.2A	
C5325	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V	D5380	8-719-982-96	DIODE MTZJ-T-77-2.2A	
C5326	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V	D5381	8-719-031-34	DIODE RGP02-20EG23	
C5328	1-128-528-11	ELECT 470UF	20.00% 16V	< IC >			
C5329	1-107-967-11	ELECT 1UF	20.00% 400V	IC5300	8-759-360-83	IC TDA6111Q/N4	
C5330	1-136-207-11	MYLAR 0.047UF	10.00% 400V				

The components identified by shading and marked Δ are critical for safety
Replace only with the part number specified.

C

D

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
IC5325	8-759-360-83	IC TDA6111Q/N4		R5334	1-216-059-00	RES-CHIP 2.7K 5% 1/10W	
IC5350	8-759-360-83	IC TDA6111Q/N4		R5335	1-216-658-11	METAL CHIP 2K 0.5% 1/10W	
< SOCKET >				R5350	1-249-417-11	CARBON 1K 5% 1/4W	
J5375	Δ 1-540-071-22	SOCKET, CRT		R5351	1-247-807-31	CARBON 100 5% 1/4W	
< COIL >				R5352	1-249-416-11	CARBON 820 5% 1/4W	
L5300	1-408-591-11	INDUCTOR 1UH		R5353	1-249-421-11	CARBON 2.2K 5% 1/4W	
L5325	1-408-591-11	INDUCTOR 1UH		R5354	1-249-418-11	CARBON 1.2K 5% 1/4W	
L5350	1-408-591-11	INDUCTOR 1UH		R5355	1-535-303-00	LEAD, JUMPER (5.0MM)	
L5375	1-410-671-31	INDUCTOR 47UH		R5356	1-216-659-11	METAL CHIP 2.2K 0.5% 1/10W	
L5376	1-532-637-00	LINK, IC 1A/150V		R5357	1-202-557-00	SOLID 220 20% 1/2W	
L5377	1-414-183-41	INDUCTOR 10UH		R5358	1-215-929-11	METAL OXIDE 100K 5% 3W	
< TRANSISTOR >				R5359	1-247-863-91	CARBON 22K 5% 1/4W	
Q5300	8-729-255-12	TRANSISTOR 2SC25510-TPE2		R5360	1-249-424-11	CARBON 3.9K 5% 1/4W	
Q5301	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R5361	1-249-431-11	CARBON 15K 5% 1/4W	
Q5325	8-729-255-12	TRANSISTOR 2SC25510-TPE2		R5362	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
Q5326	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R5363	1-216-059-00	RES-CHIP 2.7K 5% 1/10W	
Q5350	8-729-029-56	TRANSISTOR DTA144ESA-TP		R5364	1-216-658-11	METAL CHIP 2K 0.5% 1/10W	
Q5351	8-729-255-12	TRANSISTOR 2SC25510-TPE2		R5375	1-249-435-11	CARBON 33K 5% 1/4W	
Q5352	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R5376	1-249-429-11	CARBON 10K 5% 1/4W	
Q5375	8-729-119-78	TRANSISTOR 2SC1740S-RT		R5377	1-249-430-11	CARBON 12K 5% 1/4W	
Q5376	8-729-026-39	TRANSISTOR 2SA933AS-RT		R5378	1-249-429-11	CARBON 10K 5% 1/4W	
< RESISTOR >				R5379	1-249-438-11	CARBON 56K 5% 1/4W	
R5300	1-249-417-11	CARBON 1K 5% 1/4W		R5380	1-247-863-91	CARBON 22K 5% 1/4W	
R5301	1-247-807-31	CARBON 100 5% 1/4W		R5381	1-216-055-00	RES-CHIP 1.8K 5% 1/10W	
R5302	1-535-303-00	LEAD, JUMPER (5.0MM)		R5382	1-202-549-00	SOLID 100 20% 1/2W	
R5303	1-216-659-11	METAL CHIP 2.2K 0.5% 1/10W		R5383	1-535-143-51	LEAD, JUMPER (20.0MM)	
R5304	1-202-557-00	SOLID 220 20% 1/2W		R5384	1-535-143-51	LEAD, JUMPER (20.0MM)	
R5305	1-215-929-11	METAL OXIDE 100K 5% 3W		R5385	1-202-549-00	SOLID 100 20% 1/2W	
R5306	1-249-424-11	CARBON 3.9K 5% 1/4W		R5386	1-202-884-11	SOLID 820K 20% 1/2W	
R5307	1-247-863-91	CARBON 22K 5% 1/4W		R5387	1-202-884-11	SOLID 820K 20% 1/2W	
R5308	1-216-057-00	RES-CHIP 2.2K 5% 1/10W		R5388	1-215-911-11	METAL OXIDE 100 5% 3W	
R5309	1-216-658-11	METAL CHIP 2K 0.5% 1/10W		R5389	1-249-417-11	CARBON 1K 5% 1/4W	
R5310	1-216-059-00	RES-CHIP 2.7K 5% 1/10W		< VARIABLE RESISTOR >			
R5325	1-249-417-11	CARBON 1K 5% 1/4W		RV5375	1-241-656-21	RES, ADJ, METAL FILM 110M	
R5326	1-247-807-31	CARBON 100 5% 1/4W		RV5376	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
R5327	1-535-303-00	LEAD, JUMPER (5.0MM)		*A-1640-328-A D Board, Complete (KV-28FQ75)			
R5328	1-216-659-11	METAL CHIP 2.2K 0.5% 1/10W		*A-1640-323-A D Board, Complete (KV-32FQ75)			
R5329	1-202-557-00	SOLID 220 20% 1/2W		D Board, Common Parts			
R5330	1-215-929-11	METAL OXIDE 100K 5% 3W		1-695-915-11	TAB (CONTACT)		
R5331	1-249-424-11	CARBON 3.9K 5% 1/4W		4-201-023-01	SPACER, INSULATING		
R5332	1-247-863-91	CARBON 22K 5% 1/4W		4-202-373-01	SPRING, IC		
R5333	1-216-057-00	RES-CHIP 2.2K 5% 1/10W		4-382-854-11	SCREW (M3X10), P, SW (+)		
				*4-931-401-01	HEAT SINK, V.OUT		

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
< CAPACITOR >							
C6600	Δ 1-113-927-11	CERAMIC	10000PF 20.00% 250V	C6659	1-104-665-11	ELECT 100UF 20.00% 25V	
C6603	1-126-933-11	ELECT	100UF 20.00% 16V	C6661	1-117-753-11	ELECT(BLOCK) 470UF 20.00% 450V	
C6604	1-126-767-11	ELECT	1000UF 20.00% 16V	C6662	1-136-165-00	MYLAR 0.1UF 5.00% 50V	
C6605	Δ 1-119-888-51	CERAMIC	2200PF 20.00% 250V	C6664	1-136-153-00	MYLAR 0.01UF 5.00% 50V	
C6606	Δ 1-119-888-51	CERAMIC	2200PF 20.00% 250V	C6665	1-136-165-00	MYLAR 0.1UF 5.00% 50V	
C6607	Δ 1-136-415-51	FILM	0.33UF 20.00% 300V	C6666	1-136-165-00	MYLAR 0.1UF 5.00% 50V	
C6608	Δ 1-161-964-91	CERAMIC	0.0047UF 250V	C6667	1-126-933-11	ELECT 100UF 20.00% 16V	
C6609	Δ 1-161-964-91	CERAMIC	0.0047UF 250V	C6668	1-126-933-11	ELECT 100UF 20.00% 16V	
C6610	Δ 1-161-964-91	CERAMIC	0.0047UF 250V	C6669	1-136-165-00	MYLAR 0.1UF 5.00% 50V	
C6611	Δ 1-161-964-91	CERAMIC	0.0047UF 250V	C6670	1-136-165-00	MYLAR 0.1UF 5.00% 50V	
C6612	1-113-927-11	CERAMIC	10000PF 20.00% 250V	C6671	1-104-664-11	ELECT 47UF 20.00% 16V	
C6616	1-164-625-11	CERAMIC	680PF 10.00% 500V	C6672	1-104-664-11	ELECT 47UF 20.00% 16V	
C6617	1-164-625-11	CERAMIC	680PF 10.00% 500V	C6677	1-136-165-00	MYLAR 0.1UF 5.00% 50V	
C6618	1-136-175-00	MYLAR	0.68UF 5.00% 50V	C6679	1-130-495-00	MYLAR 0.1UF 5.00% 50V	
C6619	1-137-194-91	MYLAR	0.47UF 5.00% 50V	C6680	1-137-150-11	MYLAR 0.01UF 5.00% 50V	
C6620	1-136-618-11	FILM	0.047UF 5.00% 1.25KV	C6681	1-126-964-11	ELECT 10UF 20.00% 50V	
C6621	1-136-175-00	MYLAR	0.68UF 5.00% 50V	C6682	1-107-679-91	ELECT 10UF 20.00% 450V	
C6622	1-164-625-11	CERAMIC	680PF 10.00% 500V	C6700	1-102-129-00	CERAMIC 0.01UF 10.00% 50V	
C6623	1-137-194-91	MYLAR	0.47UF 5.00% 50V	C6703	1-128-527-11	ELECT 330UF 20.00% 25V	
C6624	1-126-968-11	ELECT	100UF 20.00% 50V	C6704	1-126-968-11	ELECT 100UF 20.00% 50V	
C6626	1-164-625-11	CERAMIC	680PF 10.00% 500V	C6705	1-128-527-11	ELECT 330UF 20.00% 25V	
C6627	1-164-625-11	CERAMIC	680PF 10.00% 500V	C6706	1-137-401-11	MYLAR 0.22UF 10.00% 100V	
C6628	1-126-936-11	ELECT	3300UF 20.00% 16V	C6707	1-129-702-00	MYLAR 0.001UF 10.00% 400V	
C6629	1-128-548-11	ELECT	4700UF 20.00% 25V	C6708	1-106-220-00	MYLAR 0.1UF 10.00% 100V	
C6630	1-110-626-11	ELECT	330UF 20.00% 160V	C6709	1-102-129-00	CERAMIC 0.01UF 10.00% 50V	
C6631	1-126-955-11	ELECT	4700UF 20.00% 35V	C6710	1-130-785-11	MYLAR 0.47UF 10.00% 100V	
C6632	1-126-955-11	ELECT	4700UF 20.00% 35V	C6727	1-102-228-00	CERAMIC 470PF 10.00% 500V	
C6634	1-136-165-00	MYLAR	0.1UF 5.00% 50V	C6801	1-104-664-11	ELECT 47UF 20.00% 25V	
C6635	1-104-664-11	ELECT	47UF 20.00% 25V	C6802	1-126-960-11	ELECT 1UF 20.00% 50V	
C6636	1-102-129-00	CERAMIC	0.01UF 10.00% 50V	C6803	1-126-960-11	ELECT 1UF 20.00% 50V	
C6637	1-102-129-00	CERAMIC	0.01UF 10.00% 50V	C6804	1-102-114-00	CERAMIC 470PF 10.00% 50V	
C6638	1-137-368-11	MYLAR	0.0047UF 5.00% 50V	C6805	1-102-114-00	CERAMIC 470PF 10.00% 50V	
C6639	1-102-228-00	CERAMIC	470PF 10.00% 500V	C6808	1-102-030-00	CERAMIC 330PF 10.00% 500V	
C6641	1-126-967-11	ELECT	47UF 20.00% 50V	C6809	1-102-030-00	CERAMIC 330PF 10.00% 500V	
C6642	1-128-551-11	ELECT	22UF 20.00% 25V	C6810	1-107-368-11	MYLAR 0.047UF 10.00% 200V	
C6647	1-104-664-11	ELECT	47UF 20.00% 25V	C6811	1-107-368-11	MYLAR 0.047UF 10.00% 200V	
C6649	1-126-965-11	ELECT	22UF 20.00% 50V	C6812	1-162-131-11	CERAMIC 220PF 10.00% 2KV	
C6651	1-161-964-91	CERAMIC	0.0047UF 250V	C6813	1-162-134-11	CERAMIC 470PF 10.00% 2KV	
C6652	1-107-679-91	ELECT	10UF 20.00% 450V	C6816	1-130-471-00	MYLAR 0.001UF 5.00% 50V	
C6653	1-126-968-11	ELECT	100UF 20.00% 50V	C6817	1-125-893-11	FILM 680PF 3.00% 1.5KV	
C6654	1-162-117-00	CERAMIC	100PF 10.00% 500V	C6818	1-125-893-11	FILM 680PF 3.00% 1.5KV	
C6655	1-107-974-11	CERAMIC	47PF 5.00% 2KV	C6819	1-125-893-11	FILM 680PF 3.00% 1.5KV	
C6656	1-126-967-11	ELECT	47UF 20.00% 50V	C6820	1-125-893-11	FILM 680PF 3.00% 1.5KV	
C6657	1-126-941-11	ELECT	470UF 20.00% 25V	C6824	1-107-846-11	FILM 0.1UF 5.00% 250V	
C6658	1-104-665-11	ELECT	100UF 20.00% 25V	C6827	1-107-846-11	FILM 0.1UF 5.00% 250V	
				C6828	1-127-681-11	FILM MELF 10000PF 2% 100V	
				C6829	1-127-680-11	FILM MELF 4700PF 2% 100V	

The components identified by shading and marked Δ are critical for safety
Replace only with the part number specified.

D

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C6830	1-107-655-11	ELECT	47UF 20.00% 250V	D6623	8-719-911-19	DIODE 1SS119-25TD	
C6831	1-102-228-00	CERAMIC	470PF 10.00% 500V	D6624	8-719-991-33	DIODE 1SS133T-77	
C6832	1-126-941-11	ELECT	470UF 20.00% 25V	D6625	8-719-991-33	DIODE 1SS133T-77	
C6833	1-126-941-11	ELECT	470UF 20.00% 25V	D6626	8-719-991-33	DIODE 1SS133T-77	
C6834	1-102-228-00	CERAMIC	470PF 10.00% 500V	D6627	8-719-982-27	DIODE MTZJ-T-77-33C	
C6835	1-102-228-00	CERAMIC	470PF 10.00% 500V	D6628	8-719-109-97	DIODE MTZJ-T-77-6.8	
C6836	1-123-024-21	ELECT	33UF 160V	D6629	8-719-991-33	DIODE 1SS133T-77	
C6837	1-106-375-12	MYLAR	0.022UF 10.00% 250V	D6630	8-719-991-33	DIODE 1SS133T-77	
C6840	1-137-150-11	MYLAR	0.01UF 5.00% 50V	D6631	8-719-991-33	DIODE 1SS133T-77	
C6841	1-104-664-11	ELECT	47UF 20.00% 16V	D6651	8-719-068-00	DIODE ERC04-06SE	
C6844	1-115-513-21	FILM	0.18UF 5.00% 250V	D6652	8-719-923-78	DIODE MTZJ-T-77-12	
C6851	1-162-131-11	CERAMIC	220PF 10.00% 2KV	D6653	8-719-063-73	DIODE D1NL20U-TR	
C6852	1-162-129-00	CERAMIC	150PF 10.00% 2KV	D6654	8-719-059-23	DIODE P6KE200AG23	
C6853	1-129-898-00	FILM	0.0022UF 5.00% 630V	D6655	8-719-979-64	DIODE UF4005PKG23	
C6855	1-136-205-11	MYLAR	0.022UF 10.00% 400V	D6656	8-719-063-73	DIODE D1NL20U-TR	
C6856	1-102-030-00	CERAMIC	330PF 10.00% 500V	D6658	8-719-068-00	DIODE ERC04-06SE	
C6857	1-130-785-11	MYLAR	0.47UF 10.00% 100V	D6659	8-719-063-73	DIODE D1NL20U-TR	
C6861	1-130-471-00	MYLAR	0.001UF 5.00% 50V	D6676	8-719-991-33	DIODE 1SS133T-77	
C6862	1-130-471-00	MYLAR	0.001UF 5.00% 50V	D6677	8-719-921-40	DIODE MTZJ-T-77-4.7B	
				D6678	8-719-921-40	DIODE MTZJ-T-77-4.7B	
	< CONNECTOR >						
CN6100	1-785-802-11	PIN, CONNECTOR (WITH PWB) 20P		D6679	8-719-991-33	DIODE 1SS133T-77	
CN6101	1-785-802-11	PIN, CONNECTOR (WITH PWB) 20P		D6681	8-719-991-33	DIODE 1SS133T-77	
CN6102	1-785-802-11	PIN, CONNECTOR (WITH PWB) 20P		D6700	8-719-200-02	DIODE ERA15-02TP1	
CN6500	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		D6701	8-719-110-41	DIODE MTZJ-T-77-15B	
CN6600	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P		D6803	8-719-200-02	DIODE ERA15-02TP1	
CN6611	*1-785-270-12	PIN, DY CONNECTOR (PC BOARD)		D6804	1-535-143-11	LEAD, JUMPER (10.0MM)	
CN6620	Δ 1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		D6805	8-719-302-43	DIODE RGP10GPKG23	
CN6666	Δ 1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		D6806	8-719-979-85	DIODE RGP15GPKG23	
CN6700	Δ 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P		D6807	8-719-510-73	DIODE S3L20UF4	
				D6808	8-719-510-73	DIODE S3L20UF4	
	< DIODE >						
D6600	8-719-911-19	DIODE 1SS119-25TD		D6809	8-719-991-33	DIODE 1SS133T-77	
D6601	8-719-063-73	DIODE D1NL20U-TR		D6810	1-247-895-91	CARBON 470K 5% 1/4W	
D6602	8-719-109-89	DIODE MTZJ-T-77-5.6B		D6811	8-719-110-41	DIODE MTZJ-T-77-15B	
D6603	8-719-911-19	DIODE 1SS119-25TD		D6851	8-719-970-87	DIODE ERA38-06TP1	
D6604	8-719-510-53	DIODE D4SB60L-F		D6852	8-719-970-87	DIODE ERA38-06TP1	
					< FERRITE BEAD >		
D6605	8-719-991-33	DIODE 1SS133T-77		FB6602	1-410-396-41	FERRITE 0.45UH	
D6610	8-719-063-73	DIODE D1NL20U-TR		FB6603	1-410-396-41	FERRITE 0.45UH	
D6613	8-719-911-19	DIODE 1SS119-25TD					
D6615	8-719-911-19	DIODE 1SS119-25TD			< IC >		
D6616	8-719-510-12	DIODE D10SC4M-F		IC6600	1-810-051-11	POWER MODULE DM-48	
D6617	8-719-500-71	DIODE D8LC40F		IC6604	8-729-045-40	TRANSISTOR MX0842A-F	
D6618	8-719-079-50	DIODE RBA-402L		IC6651	8-759-468-89	IC TOP209P	
D6619	8-719-510-12	DIODE D10SC4M-F		IC6652	8-759-394-35	IC BA12T	
D6621	8-719-991-33	DIODE 1SS133T-77		IC6653	8-759-544-13	IC KA78R09-YDTU	
D6622	8-719-991-33	DIODE 1SS133T-77		IC6654	8-759-574-76	IC KA78R05-SYDTU	

REF. NO.	PART.NO	DESCRIPTION	REMARK
IC6667	8-759-908-15	IC TL431CZ	
IC6676	8-759-908-15	IC TL431CZ	
IC6700	8-759-192-71	IC STV9379	
IC6801	8-759-103-93	IC LM393P	

< COIL >

L6604	1-412-525-31	INDUCTOR	10UH
L6605	1-412-523-41	INDUCTOR	6.8UH
L6606	1-412-525-31	INDUCTOR	10UH
L6651	1-414-183-41	INDUCTOR	10UH
L6700	1-412-524-11	INDUCTOR	8.2UH

L6801	1-412-519-11	INDUCTOR	3.3UH
L6802	1-412-519-11	INDUCTOR	3.3UH
L6803	1-412-533-21	INDUCTOR	47UH
L6805	1-408-947-00	INDUCTOR	2.2MH
L6806	1-535-303-00	LEAD, JUMPER	(5.0MM)

L6807	1-410-397-21	FERRITE	1.1UH
L6851	1-535-303-00	LEAD, JUMPER	(5.0MM)

< FILTER >

LF6603	1-406-659-11	INDUCTOR	10UH
LF6604	1-406-659-11	INDUCTOR	10UH
LF6801	1-406-985-11	INDUCTOR	2.2MH
LF6851	1-406-674-11	INDUCTOR	3.3MH

< IC LINK >

PS6601	Δ 1-801-550-21	PROTECTOR, MODULE 2.5A MP250
PS6602	Δ 1-801-550-21	PROTECTOR, MODULE 2.5A MP250
PS6603	Δ 1-801-549-21	PROTECTOR, MODULE 4.0A MP250
PS6604	Δ 1-801-550-21	PROTECTOR, MODULE 2.5A MP250

< TRANSISTOR >

Q6600	8-729-046-47	TRANSISTOR KSC2500-BTA
Q6602	8-729-026-39	TRANSISTOR 2SA933AS-RT
Q6603	8-729-119-78	TRANSISTOR 2SC1740S-RT
Q6605	8-729-046-47	TRANSISTOR KSC2500-BTA
Q6606	8-729-029-56	TRANSISTOR DTA144ESA-TP

Q6607	8-729-119-78	TRANSISTOR 2SC1740S-RT
Q6608	8-729-029-66	TRANSISTOR DTC114ESA-TP
Q6611	8-729-029-66	TRANSISTOR DTC114ESA-TP
Q6651	8-729-026-39	TRANSISTOR 2SA933AS-RT
Q6652	8-729-029-86	TRANSISTOR DTC124ESA-TP

Q6667	8-729-026-39	TRANSISTOR 2SA933AS-RT
Q6676	8-729-119-78	TRANSISTOR 2SC1740S-RT
Q6677	8-729-119-78	TRANSISTOR 2SC1740S-RT
Q6678	8-729-119-78	TRANSISTOR 2SC1740S-RT
Q6679	8-729-026-39	TRANSISTOR 2SA933AS-RT

REF. NO.	PART.NO	DESCRIPTION	REMARK
Q6680	8-729-029-66	TRANSISTOR DTC114ESA-TP	
Q6681	8-729-029-66	TRANSISTOR DTC114ESA-TP	
Q6700	8-729-039-68	TRANSISTOR IRF620	
Q6801	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q6802	8-729-119-80	TRANSISTOR 2SC2688-LK	

Q6803	8-729-046-18	TRANSISTOR 2SC5480-01	
Q6804	8-729-046-18	TRANSISTOR 2SC5480-01	
Q6805	8-729-038-83	TRANSISTOR 2SK2251-01-F19	
Q6806	8-729-047-59	TRANSISTOR STP5NB40FP	
Q6807	8-729-030-02	TRANSISTOR DTC144ESA-TP	

Q6851	8-729-043-95	TRANSISTOR 2SC3840K	
-------	--------------	---------------------	--

< RESISTOR >

R6601	Δ 1-202-968-11	CEMENTED	1.2	5%	10W
R6602	1-247-863-91	CARBON	22K	5%	1/4W
R6603	1-249-430-11	CARBON	12K	5%	1/4W
R6604	1-249-421-11	CARBON	2.2K	5%	1/4W
R6605	1-249-417-11	CARBON	1K	5%	1/4W

R6606	Δ 1-202-968-11	CEMENTED	1.2	5%	10W
R6608	Δ 1-220-797-11	CEMENTED	0.47	5%	10W
R6611	Δ 1-260-125-11	CARBON	150K	5%	1/2W
R6612	1-260-125-11	CARBON	150K	5%	1/2W
R6613	1-216-369-00	METAL OXIDE	1	5%	2W

R6614	1-260-125-11	CARBON	150K	5%	1/2W
R6615	1-260-125-11	CARBON	150K	5%	1/2W
R6616	1-216-369-00	METAL OXIDE	1	5%	2W
R6619	1-249-425-11	CARBON	4.7K	5%	1/4W
R6620	1-249-443-11	CARBON	0.47	5%	1/4W

R6624	1-249-425-11	CARBON	4.7K	5%	1/4W
R6625	1-249-429-11	CARBON	10K	5%	1/4W
R6626	1-247-807-31	CARBON	100	5%	1/4W
R6627	1-249-429-11	CARBON	10K	5%	1/4W
R6628	1-260-129-11	CARBON	330K	5%	1/2W

R6629	1-260-129-11	CARBON	330K	5%	1/2W
R6630	1-249-417-11	CARBON	1K	5%	1/4W
R6631	1-249-425-11	CARBON	4.7K	5%	1/4W
R6632	1-207-905-00	WIREWOUND	0.27	10%	2W
R6633	1-249-429-11	CARBON	10K	5%	1/4W

R6635	1-535-143-11	LEAD, JUMPER (10.0MM)			
R6637	1-249-421-11	CARBON	2.2K	5%	1/4W
R6638	1-247-895-91	CARBON	470K	5%	1/4W
R6639	1-249-416-11	CARBON	820	5%	1/4W
R6640	1-249-417-11	CARBON	1K	5%	1/4W

R6641	1-260-127-11	CARBON	220K	5%	1/2W
R6642	1-249-389-11	CARBON	4.7	5%	1/4W
R6643	1-249-417-11	CARBON	1K	5%	1/4W
R6644	1-249-429-11	CARBON	10K	5%	1/4W

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R6645	1-260-131-11	CARBON	470K 5% 1/2W	R6805	1-249-408-11	CARBON	180 5% 1/4W
R6646	1-249-429-11	CARBON	10K 5% 1/4W	R6806	1-249-411-11	CARBON	330 5% 1/4W
R6647	1-249-410-11	CARBON	270 5% 1/4W	R6807	1-249-411-11	CARBON	330 5% 1/4W
R6648	1-247-863-91	CARBON	22K 5% 1/4W	R6808	1-260-340-11	CARBON	10K 5% 1/2W
R6649	1-215-926-00	METAL OXIDE	33K 5% 3W	R6809	1-260-340-11	CARBON	10K 5% 1/2W
R6651	1-247-791-91	CARBON	22 5% 1/4W	R6811	1-216-461-00	METAL OXIDE	5.6K 5% 2W
R6652	1-249-389-11	CARBON	4.7 5% 1/4W	R6812	1-215-895-11	METAL OXIDE	3.3K 5% 2W
R6653	1-249-421-11	CARBON	2.2K 5% 1/4W	R6813	1-215-920-11	METAL OXIDE	3.3K 5% 3W
R6655	1-249-429-11	CARBON	10K 5% 1/4W	R6814	1-215-880-00	METAL OXIDE	10 5% 2W
R6656	1-218-265-11	METAL	8.2M 5% 1W	R6815	1-215-880-00	METAL OXIDE	10 5% 2W
R6657	1-215-421-00	METAL	1K 1% 1/4W	R6816	1-216-361-00	METAL OXIDE	0.22 5% 2W
R6666	1-202-933-61	FUSIBLE	0.1 10% 1/2W	R6817	1-216-361-00	METAL OXIDE	0.22 5% 2W
R6667	1-215-441-00	METAL	6.8K 1% 1/4W	R6818	1-249-405-11	CARBON	100 5% 1/4W
R6668	1-249-428-11	CARBON	8.2K 5% 1/4W	R6819	1-247-807-31	CARBON	100 5% 1/4W
R6669	1-249-413-11	CARBON	470 5% 1/4W	R6820	1-535-143-51	LEAD, JUMPER (20.0MM)	
R6676	1-249-417-11	CARBON	1K 5% 1/4W	R6821	1-535-143-51	LEAD, JUMPER (20.0MM)	
R6677	1-249-417-11	CARBON	1K 5% 1/4W	R6831	1-260-124-11	CARBON	120K 5% 1/2W
R6678	1-249-417-11	CARBON	1K 5% 1/4W	R6832	1-216-434-11	METAL OXIDE	1.8K 5% 1W
R6679	1-215-479-00	METAL	270K 1% 1/4W	R6833	1-202-972-61	FUSIBLE	1 5% 1/4W
R6681	1-215-467-00	METAL	82K 1% 1/4W	R6834	1-535-303-00	LEAD, JUMPER (5.0MM)	
R6682	1-215-447-00	METAL	12K 1% 1/4W	R6835	1-260-288-11	CARBON	0.47 5% 1/2W
R6683	1-215-429-00	METAL	2.2K 1% 1/4W	R6836	1-249-431-11	CARBON	15K 5% 1/4W
R6684	1-247-807-31	CARBON	100 5% 1/4W	R6837	1-215-919-11	METAL OXIDE	2.2K 5% 3W
R6685	1-249-417-11	CARBON	1K 5% 1/4W	R6838	1-214-905-11	METAL	47K 1% 1/2W
R6686	1-215-449-00	METAL	15K 1% 1/4W	R6839	1-215-919-11	METAL OXIDE	2.2K 5% 3W
R6687	1-249-431-11	CARBON	15K 5% 1/4W	R6840	1-247-843-11	CARBON	3.3K 5% 1/4W
R6688	1-249-417-11	CARBON	1K 5% 1/4W	R6842	1-260-123-11	CARBON	100K 5% 1/2W
R6689	1-247-843-11	CARBON	3.3K 5% 1/4W	R6843	1-249-429-11	CARBON	10K 5% 1/4W
R6690	1-249-429-11	CARBON	10K 5% 1/4W	R6844	1-249-441-11	CARBON	100K 5% 1/4W
R6691	1-215-446-00	METAL	11K 1% 1/4W	R6845	1-247-863-91	CARBON	22K 5% 1/4W
R6692	1-215-445-00	METAL	10K 1% 1/4W	R6851	1-260-123-11	CARBON	100K 5% 1/2W
R6700	1-215-441-00	METAL	6.8K 1% 1/4W	R6852	1-260-123-11	CARBON	100K 5% 1/2W
R6701	1-215-437-00	METAL	4.7K 1% 1/4W	R6853	1-260-123-11	CARBON	100K 5% 1/2W
R6702	1-215-441-00	METAL	6.8K 1% 1/4W	R6854	1-249-417-11	CARBON	1K 5% 1/4W
R6703	1-215-437-00	METAL	4.7K 1% 1/4W	R6880	1-215-436-00	METAL	4.3K 1% 1/4W
R6704	1-249-383-11	CARBON	1.5 5% 1/4W	R6885	1-215-493-00	METAL	1M 1% 1/4W
R6705	1-247-791-91	CARBON	22 5% 1/4W	R6886	1-215-477-00	METAL	220K 1% 1/4W
R6706	1-249-389-11	CARBON	4.7 5% 1/4W	R6887	1-215-461-00	METAL	47K 1% 1/4W
R6707	1-215-888-00	METAL OXIDE	220 5% 2W	R6888	1-249-441-11	CARBON	100K 5% 1/4W
R6708	1-214-798-21	METAL	1.8 1% 1/2W	R6891	1-535-303-00	LEAD, JUMPER (5.0MM)	
R6709	1-214-798-21	METAL	1.8 1% 1/2W	R6892	1-535-303-00	LEAD, JUMPER (5.0MM)	
R6710	1-247-843-11	CARBON	3.3K 5% 1/4W	R6895	1-249-443-11	CARBON	0.47 5% 1/4W
R6711	1-249-418-11	CARBON	1.2K 5% 1/4W	R6896	1-249-443-11	CARBON	0.47 5% 1/4W
R6801	1-215-440-00	METAL	6.2K 1% 1/4W	R6898	1-215-493-00	METAL	1M 1% 1/4W
R6802	1-214-915-00	METAL	120K 1% 1/2W	R6899	1-215-493-00	METAL	1M 1% 1/4W
R6803	1-249-421-11	CARBON	2.2K 5% 1/4W				
R6804	1-249-408-11	CARBON	180 5% 1/4W				



The components identified by shading and marked Δ are critical for safety
Replace only with the part number specified.

REF.NO. PART.NO DESCRIPTION REMARK

< RELAY >

RY6601	Δ 1-755-266-11	RELAY, AC POWER
RY6602	Δ 1-755-167-11	RELAY, AC POWER

< TRANSFORMER >

T6600	1-431-616-11	TRANSFORMER, CONVERTER
T6601	Δ 1-433-516-11	TRANSFORMER, CONVERTER (PIT)
T6651	1-431-732-21	TRANSFORMER, CONVERTER (SRT)
T6801	1-433-489-31	TRANSFORMER, FERRITE (HDT)
T6802	1-433-489-31	TRANSFORMER, FERRITE (HDT)
T6804	Δ 1-453-340-11	TRANSFORMER ASSY, FLYBACK (NX-4522//U214)
T6852	1-433-487-11	TRANSFORMER, FERRITE (DFT)

< THERMISTOR >

TH6600	1-809-827-11	THERMISTOR, POSITIVE
TH6700	1-800-193-00	THERMISTOR

D Board Variant Parts KV-28FQ75

< CAPACITOR >

C6814	1-117-641-11	FILM	7500PF	3.00%	1.2KV
C6815	1-117-836-11	FILM	6800PF	3.00%	1.5KV
C6825	1-115-514-11	FILM	0.22UF	5.00%	250V
C6826	1-115-520-11	FILM	0.68UF	5.00%	250V

< RESISTOR >

R6810	1-215-920-11	METAL OXIDE	3.3K	5%	3W
R6856	1-216-486-00	METAL OXIDE	8.2K	5%	3W
R6857	1-216-486-00	METAL OXIDE	8.2K	5%	3W
R6858	1-216-486-00	METAL OXIDE	8.2K	5%	3W
R6859	1-216-486-00	METAL OXIDE	8.2K	5%	3W
R6897	1-215-485-00	METAL	470K	1%	1/4W

D Board Variant Parts KV-32FQ75

< CAPACITOR >

C6814	1-117-640-11	FILM	6800PF	3.00%	1.2KV
C6815	1-117-835-11	FILM	6200PF	3.00%	1.5KV
C6825	1-117-662-11	FILM	0.18UF	5.00%	250V
C6826	1-115-519-11	FILM	0.56UF	5.00%	250V

< RESISTOR >

R6810	1-216-484-00	METAL OXIDE	3.9K	5%	3W
R6856	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R6857	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R6858	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R6859	1-215-922-11	METAL OXIDE	6.8K	5%	3W

REF.NO. PART.NO DESCRIPTION REMARK

R6897 1-215-489-00 METAL 680K 1% 1/4W

*A-1640-383-A E Board, Complete (KV-28FQ75)
*A-1640-384-A E Board, Complete (KV-32FQ75)

E Board Common Parts

< CAPACITOR >

C4316	1-104-664-11	ELECT	47UF	20.00%	25V
C4317	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4318	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4319	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4320	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4321	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4322	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4324	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4325	1-163-093-00	CERAMIC CHIP	10PF	5.00%	50V
C4329	1-126-963-11	ELECT	4.7UF	20.00%	50V
C4330	1-137-581-11	FILM	0.1UF	5.00%	100V
C4331	1-126-959-11	ELECT	0.47UF	20.00%	50V
C4332	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4333	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4334	1-126-967-11	ELECT	47UF	20.00%	50V
C4336	1-126-967-11	ELECT	47UF	20.00%	50V
C4338	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4340	1-126-967-11	ELECT	47UF	20.00%	50V
C4342	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C4343	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4344	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V
C4345	1-126-967-11	ELECT	47UF	20.00%	50V
C4346	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4347	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4348	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4349	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4350	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4351	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
C4352	1-126-967-11	ELECT	47UF	20.00%	50V
C4353	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C4354	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C4355	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4356	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4357	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4358	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4359	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C4360	1-126-963-11	ELECT	4.7UF	20.00%	50V
C4362	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4363	1-126-967-11	ELECT	47UF	20.00%	50V
C4364	1-126-967-11	ELECT	47UF	20.00%	50V

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C4366	1-163-059-91	CERAMIC CHIP 0.01UF	10.00% 50V	Q4313	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
C4367	1-104-760-11	CERAMIC CHIP 0.047UF	10.00% 50V	Q4315	1-801-806-11	TRANSISTOR DTC144EKA-T146	
C4369	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	Q4316	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
C4370	1-126-967-11	ELECT 47UF	20.00% 50V	Q4317	8-729-900-53	TRANSISTOR DTC114EKA-T146	
C4371	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V				
						< RESISTOR >	
C4377	1-126-960-11	ELECT 1UF	20.00% 50V	R4301	1-216-025-91	RES-CHIP 100 5% 1/10W	
C4379	1-163-243-11	CERAMIC CHIP 47PF	5.00% 50V	R4302	1-216-025-91	RES-CHIP 100 5% 1/10W	
C4519	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	R4303	1-216-025-91	RES-CHIP 100 5% 1/10W	
		< CONNECTOR >		R4304	1-216-025-91	RES-CHIP 100 5% 1/10W	
				R4305	1-216-025-91	RES-CHIP 100 5% 1/10W	
CN4101	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P		R4306	1-216-025-91	RES-CHIP 100 5% 1/10W	
CN4500	*1-564-511-11	PLUG, CONNECTOR 8P		R4307	1-216-045-00	RES-CHIP 680 5% 1/10W	
CN4502	*1-568-878-51	PIN, CONNECTOR 3P		R4308	1-216-045-00	RES-CHIP 680 5% 1/10W	
		< DIODE >		R4309	1-216-045-00	RES-CHIP 680 5% 1/10W	
				R4313	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
D4304	8-719-923-60	DIODE MTZJ-T-77-9.1		R4314	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
D4305	8-719-923-60	DIODE MTZJ-T-77-9.1		R4331	1-216-073-00	RES-CHIP 10K 5% 1/10W	
D4311	8-719-914-43	DIODE DAN202K-T-146		R4332	1-216-073-00	RES-CHIP 10K 5% 1/10W	
D4312	8-719-914-43	DIODE DAN202K-T-146		R4333	1-216-073-00	RES-CHIP 10K 5% 1/10W	
D4313	8-719-401-63	DIODE MA3062M-TX		R4334	1-216-025-91	RES-CHIP 100 5% 1/10W	
		< FERRITE BEAD >		R4335	1-216-025-91	RES-CHIP 100 5% 1/10W	
FB4387	1-414-234-22	INDUCTOR CHIP 0UH		R4336	1-216-025-91	RES-CHIP 100 5% 1/10W	
FB4388	1-414-234-22	INDUCTOR CHIP 0UH		R4337	1-216-025-91	RES-CHIP 100 5% 1/10W	
FB4389	1-414-234-22	INDUCTOR CHIP 0UH		R4339	1-216-049-91	RES-CHIP 1K 5% 1/10W	
		< IC >		R4340	1-216-111-00	RES-CHIP 390K 5% 1/10W	
IC4301	8-752-090-88	IC CXA2100AQ-TL		R4341	1-216-295-91	SHORT 0	
		< COIL >		R4343	1-216-025-91	RES-CHIP 100 5% 1/10W	
				R4344	1-216-025-91	RES-CHIP 100 5% 1/10W	
L4301	1-414-183-41	INDUCTOR 10UH		R4345	1-216-677-11	METAL CHIP 12K 0.5% 1/10W	
L4302	1-414-183-41	INDUCTOR 10UH		R4346	1-216-683-11	METAL CHIP 22K 0.5% 1/10W	
L4303	1-414-183-41	INDUCTOR 10UH		R4347	1-216-025-91	RES-CHIP 100 5% 1/10W	
L4304	1-414-183-41	INDUCTOR 10UH		R4348	1-216-025-91	RES-CHIP 100 5% 1/10W	
L4305	1-414-183-41	INDUCTOR 10UH		R4350	1-216-025-91	RES-CHIP 100 5% 1/10W	
L4306	1-414-183-41	INDUCTOR 10UH		R4354	1-216-675-91	METAL CHIP 10K 0.5% 1/10W	
L4308	1-414-186-31	INDUCTOR 33UH		R4355	1-216-009-91	RES-CHIP 22 5% 1/10W	
L4309	1-414-186-31	INDUCTOR 33UH		R4356	1-216-009-91	RES-CHIP 22 5% 1/10W	
		< TRANSISTOR >		R4357	1-216-009-91	RES-CHIP 22 5% 1/10W	
				R4358	1-216-071-00	RES-CHIP 8.2K 5% 1/10W	
Q4304	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R4359	1-216-041-00	RES-CHIP 470 5% 1/10W	
Q4307	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R4360	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
Q4308	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R4361	1-216-133-00	RES-CHIP 3.3M 5% 1/10W	
Q4309	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R4363	1-216-025-91	RES-CHIP 100 5% 1/10W	
Q4310	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R4365	1-216-025-91	RES-CHIP 100 5% 1/10W	
Q4311	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R4366	1-216-025-91	RES-CHIP 100 5% 1/10W	
Q4312	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R4367	1-216-025-91	RES-CHIP 100 5% 1/10W	
				R4370	1-216-089-91	RES-CHIP 47K 5% 1/10W	

E**D1**

REF.NO.	PART.NO	DESCRIPTION	REMARK
R4371	1-216-069-00	RES-CHIP 6.8K 5%	1/10W
R4372	1-216-049-91	RES-CHIP 1K 5%	1/10W
R4373	1-216-073-00	RES-CHIP 10K 5%	1/10W
R4374	1-216-049-91	RES-CHIP 1K 5%	1/10W
R4375	1-216-049-91	RES-CHIP 1K 5%	1/10W
R4376	1-216-049-91	RES-CHIP 1K 5%	1/10W
R4377	1-216-049-91	RES-CHIP 1K 5%	1/10W
R4378	1-216-101-00	RES-CHIP 150K 5%	1/10W
R4379	1-216-091-00	RES-CHIP 56K 5%	1/10W
R4380	1-216-073-00	RES-CHIP 10K 5%	1/10W
R4382	1-216-073-00	RES-CHIP 10K 5%	1/10W
R4383	1-216-079-00	RES-CHIP 18K 5%	1/10W
R4384	1-216-025-91	RES-CHIP 100 5%	1/10W
R4387	1-216-031-00	RES-CHIP 180 5%	1/10W
R4388	1-216-031-00	RES-CHIP 180 5%	1/10W
R4389	1-216-031-00	RES-CHIP 180 5%	1/10W
R4394	1-216-025-91	RES-CHIP 100 5%	1/10W
R4395	1-216-295-91	SHORT 0	
R4396	1-216-295-91	SHORT 0	
R4398	1-216-025-91	RES-CHIP 100 5%	1/10W
R4399	1-216-025-91	RES-CHIP 100 5%	1/10W
R4401	1-216-105-91	RES-CHIP 220K 5%	1/10W
R4404	1-216-073-00	RES-CHIP 10K 5%	1/10W
R4518	1-216-025-91	RES-CHIP 100 5%	1/10W
R4519	1-216-073-00	RES-CHIP 10K 5%	1/10W
R4520	1-216-295-91	SHORT 0	
R4521	1-216-295-91	SHORT 0	
R4522	1-216-073-00	RES-CHIP 10K 5%	1/10W

< CRYSTAL >

X4300 1-767-127-11 VIBRATOR, CERAMIC

E Board Variant Parts KV-32FQ75

< CAPACITOR >

C4380 1-163-017-00 CERAMIC CHIP 0.0047UF 10.00% 50V

< TRANSISTOR >

Q4318 8-729-026-49 TRANSISTOR 2SA1037AK-T146-R

< RESISTOR >

R4403 1-216-073-00 RES-CHIP 10K 5% 1/10W
R4405 1-216-689-11 RES-CHIP 39K 5% 1/10W
R4406 1-216-105-91 RES-CHIP 220K 5% 1/10W
R4407 1-216-091-00 RES-CHIP 56K 5% 1/10W

REF.NO. PART.NO DESCRIPTION REMARK

***A-1640-382-A D1 Board, Complete (KV-28FQ75)**
***A-1640-385-A D1 Board, Complete (KV-32FQ75)**

D1 Board Common Parts

4-382-854-11 SCREW (M3X10), P, SW (+)

< CAPACITOR >

C6100 1-136-165-00 MYLAR 0.1UF 5.00% 50V
C6101 1-136-165-00 MYLAR 0.1UF 5.00% 50V
C6102 1-136-165-00 MYLAR 0.1UF 5.00% 50V
C6103 1-163-205-00 CERAMIC CHIP 0.001UF 5.00% 50V
C6104 1-163-205-00 CERAMIC CHIP 0.001UF 5.00% 50V
C6105 1-126-967-11 ELECT 47UF 20.00% 50V
C6106 1-163-133-00 CERAMIC CHIP 470PF 5.00% 50V
C6108 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
C6109 1-126-967-11 ELECT 47UF 20.00% 50V
C6110 1-126-967-11 ELECT 47UF 20.00% 50V
C6112 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V
C6113 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
C6114 1-126-964-11 ELECT 10UF 20.00% 50V
C6115 1-163-005-11 CERAMIC CHIP 470PF 10.00% 50V
C6116 1-163-275-11 CERAMIC CHIP 0.001UF 5.00% 50V
C6117 1-163-275-11 CERAMIC CHIP 0.001UF 5.00% 50V
C6119 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
C6120 1-163-809-11 CERAMIC CHIP 0.047UF 10.00% 25V
C6121 1-126-964-11 ELECT 10UF 20.00% 50V
C6122 1-126-967-11 ELECT 47UF 20.00% 50V
C6125 1-163-017-00 CERAMIC CHIP 0.0047UF 10.00% 50V
C6126 1-163-809-11 CERAMIC CHIP 0.047UF 10.00% 25V
C6127 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
C6128 1-163-017-00 CERAMIC CHIP 0.0047UF 10.00% 50V
C6129 1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 25V
C6131 1-126-964-11 ELECT 10UF 20.00% 50V
C6132 1-163-259-91 CERAMIC CHIP 220PF 5.00% 50V
C6199 1-163-229-11 CERAMIC CHIP 12PF 5.00% 50V
C6207 1-126-967-11 ELECT 47UF 20.00% 50V
C6208 1-126-967-11 ELECT 47UF 20.00% 50V
C6209 1-163-133-00 CERAMIC CHIP 470PF 5.00% 50V
C6210 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V
C6250 1-104-664-11 ELECT 47UF 20.00% 16V
C6251 1-216-295-91 SHORT 0
C6253 1-115-339-11 CERAMIC CHIP 0.1UF 10.00% 50V
C6254 1-136-177-00 MYLAR 1UF 5.00% 50V
C6255 1-136-177-00 MYLAR 1UF 5.00% 50V
C6256 1-163-117-00 CERAMIC CHIP 100PF 5.00% 50V
C6257 1-115-339-11 CERAMIC CHIP 0.1UF 10.00% 50V

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C6258	1-163-127-00	CERAMIC CHIP 270PF	5.00% 50V	< CONNECTOR >			
C6259	1-110-501-11	CERAMIC CHIP 0.33UF	10.00% 16V	CN6502	*1-568-881-51	PIN, CONNECTOR 6P	
C6260	1-104-664-11	ELECT 47UF	20.00% 16V	CN6600	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
C6261	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V	CN6601	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
C6262	1-136-165-00	MYLAR 0.1UF	5.00% 50V	CN6622	*1-564-506-11	PLUG, CONNECTOR 3P	
C6263	1-163-109-00	CERAMIC CHIP 47PF	5.00% 50V	CN6633	*1-564-506-11	PLUG, CONNECTOR 3P	
C6264	1-126-964-11	ELECT 10UF	20.00% 50V	< DIODE >			
C6306	1-126-964-11	ELECT 10UF	20.00% 50V	D6102	8-719-914-43	DIODE DAN202K-T-146	
C6307	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	D6104	8-719-914-43	DIODE DAN202K-T-146	
C6350	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D6105	8-719-914-43	DIODE DAN202K-T-146	
C6351	1-126-967-11	ELECT 47UF	20.00% 50V	D6107	8-719-914-43	DIODE DAN202K-T-146	
C6353	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V	D6108	8-719-921-40	DIODE MTZJ-T-77-4.7B	
C6354	1-136-159-00	MYLAR 0.033UF	5.00% 50V	D6127	8-719-914-43	DIODE DAN202K-T-146	
C6355	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	D6128	8-719-914-43	DIODE DAN202K-T-146	
C6356	1-163-809-11	CERAMIC CHIP 0.047UF	10.00% 25V	D6129	8-719-914-43	DIODE DAN202K-T-146	
C6357	1-136-165-00	MYLAR 0.1UF	5.00% 50V	D6198	8-535-303-00	LEAD, JUMPER (5.0MM)	
C6358	1-104-329-11	CERAMIC CHIP 0.1UF	10.00% 50V	D6253	8-719-911-19	DIODE 1SS119-25TD	
C6359	1-104-329-11	CERAMIC CHIP 0.1UF	10.00% 50V	D6254	1-535-303-00	LEAD, JUMPER (5.0MM)	
C6360	1-107-714-11	ELECT 10UF	20.00% 50V	D6255	8-719-914-43	DIODE DAN202K-T-146	
C6361	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D6350	8-719-914-43	DIODE DAN202K-T-146	
C6362	1-164-182-11	CERAMIC CHIP 0.0033UF	10.00% 50V	D6351	8-719-914-43	DIODE DAN202K-T-146	
C6363	1-104-665-11	ELECT 100UF	20.00% 25V	D6352	8-719-914-43	DIODE DAN202K-T-146	
C6364	1-136-347-11	FILM 0.0047UF	5.00% 630V	D6353	8-719-987-87	DIODE ERA82-004TP1	
C6365	1-163-809-11	CERAMIC CHIP 0.047UF	10.00% 25V	D6354	8-719-914-43	DIODE DAN202K-T-146	
C6367	1-104-329-11	CERAMIC CHIP 0.1UF	10.00% 50V	D6355	8-719-914-43	DIODE DAN202K-T-146	
C6368	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	D6358	8-719-914-43	DIODE DAN202K-T-146	
C6370	1-136-347-11	FILM 0.0047UF	5.00% 630V	D6359	8-719-302-43	DIODE RGP10GPKG23	
C6373	1-136-153-00	MYLAR 0.01UF	5.00% 50V	D6401	8-719-914-43	DIODE DAN202K-T-146	
C6374	1-129-716-00	FILM 0.015UF	5.00% 630V	D6402	8-719-982-03	DIODE MTZJ-T-77-3.6A	
C6375	1-102-110-00	CERAMIC 220PF	10.00% 50V	D6403	8-719-921-63	DIODE MTZJ-T-77-7.5B	
C6376	1-104-664-11	ELECT 47UF	20.00% 16V	D6404	8-719-914-43	DIODE DAN202K-T-146	
C6377	1-128-551-11	ELECT 22UF	20.00% 25V	D6405	8-719-921-63	DIODE MTZJ-T-77-7.5B	
C6378	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V	< IC >			
C6380	1-136-165-00	MYLAR 0.1UF	5.00% 50V	IC6100	8-759-450-95	IC LM393N	
C6381	1-126-960-11	ELECT 1UF	20.00% 50V	IC6101	8-759-450-95	IC LM393N	
C6385	1-104-664-11	ELECT 47UF	20.00% 25V	IC6102	8-759-701-50	IC NJM3404AD	
C6386	1-104-664-11	ELECT 47UF	20.00% 25V	IC6103	8-759-450-95	IC LM393N	
C6388	1-126-964-11	ELECT 10UF	20.00% 50V	IC6250	8-759-478-66	IC CXA8070P	
C6389	1-126-964-11	ELECT 10UF	20.00% 50V	IC6251	8-759-903-16	IC LM318P	
C6392	1-104-664-11	ELECT 47UF	20.00% 25V	IC6302	8-752-072-94	IC CXA1875AM-T4	
C6401	1-126-964-11	ELECT 10UF	20.00% 50V	IC6350	8-759-008-70	IC LM358N	
C6402	1-107-714-11	ELECT 10UF	20.00% 50V	IC6351	8-759-450-95	IC LM393N	
C6407	1-136-161-00	MYLAR 0.047UF	5.00% 50V	IC6352	8-759-450-95	IC LM393N	
C6408	1-136-161-00	MYLAR 0.047UF	5.00% 50V	IC6353	8-759-231-53	IC L7805CV	
C6409	1-126-964-11	ELECT 10UF	20.00% 50V	IC6354	8-759-325-48	IC CA0005AD	
C6420	1-136-497-81	FILM 0.1UF	5.00% 50V				
C6421	1-136-497-81	FILM 0.1UF	5.00% 50V				

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
IC6355	8-759-008-70	IC LM358N		Q6358	8-729-038-83	TRANSISTOR 2SK2251-01-F19	
IC6356	8-759-822-38	IC LA6510		Q6401	1-801-806-11	TRANSISTOR DTC144EKA-T146	
< FILTER >				Q6402	1-801-806-11	TRANSISTOR DTC144EKA-T146	
LF6350	1-406-989-21	INDUCTOR 10MH		Q6403	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
LF6351	1-406-989-21	INDUCTOR 10MH		Q6404	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
< IC LINK >				Q6405	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
PS6376 Δ	1-532-637-00	LINK, IC 1A (ICP-N25)		Q6455	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
< TRANSISTOR >				Q6465	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q6100	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		< RESISTOR >			
Q6101	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6100	1-216-033-00	RES-CHIP 220 5% 1/10W	
Q6102	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6101	1-216-033-00	RES-CHIP 220 5% 1/10W	
Q6103	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6102	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
Q6104	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6103	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
Q6105	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6104	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
Q6106	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6105	1-216-049-91	RES-CHIP 1K 5% 1/10W	
Q6107	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6106	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
Q6108	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6109	1-216-683-11	METAL CHIP 22K 0.5% 1/10W	
Q6110	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6110	1-216-683-11	METAL CHIP 22K 0.5% 1/10W	
Q6112	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6111	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
Q6113	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6112	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
Q6118	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6113	1-216-073-00	RES-CHIP 10K 5% 1/10W	
Q6119	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6114	1-216-073-00	RES-CHIP 10K 5% 1/10W	
Q6120	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6115	1-216-089-91	RES-CHIP 47K 5% 1/10W	
Q6122	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6116	1-216-089-91	RES-CHIP 47K 5% 1/10W	
Q6123	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6117	1-216-073-00	RES-CHIP 10K 5% 1/10W	
Q6125	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6118	1-216-073-00	RES-CHIP 10K 5% 1/10W	
Q6126	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6119	1-216-073-00	RES-CHIP 10K 5% 1/10W	
Q6127	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6120	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
Q6128	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6121	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
Q6129	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6122	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
Q6201	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6123	1-216-089-91	RES-CHIP 47K 5% 1/10W	
Q6202	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6124	1-216-089-91	RES-CHIP 47K 5% 1/10W	
Q6250	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6125	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
Q6251	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6126	1-216-037-00	RES-CHIP 330 5% 1/10W	
Q6252	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6128	1-216-691-11	METAL CHIP 47K 0.5% 1/10W	
Q6253	8-729-045-04	TRANSISTOR 2SC5511		R6129	1-216-691-11	METAL CHIP 47K 0.5% 1/10W	
Q6254	8-729-045-04	TRANSISTOR 2SC5511		R6131	1-216-037-00	RES-CHIP 330 5% 1/10W	
Q6350	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6132	1-216-037-00	RES-CHIP 330 5% 1/10W	
Q6351	8-729-119-78	TRANSISTOR 2SC1740S-RT		R6133	1-216-037-00	RES-CHIP 330 5% 1/10W	
Q6352	8-729-140-97	TRANSISTOR 2SB734-T-3		R6135	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V	
Q6353	8-729-140-97	TRANSISTOR 2SB734-T-3		R6136	1-216-691-11	METAL CHIP 47K 0.5% 1/10W	
Q6354	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6137	1-216-691-11	METAL CHIP 47K 0.5% 1/10W	
Q6356	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R6138	1-216-691-11	METAL CHIP 47K 0.5% 1/10W	
				R6139	1-216-691-11	METAL CHIP 47K 0.5% 1/10W	
				R6140	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
				R6143	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R6146	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R6270	1-216-667-11	METAL CHIP	4.7K 0.5% 1/10W
R6148	1-216-295-91	SHORT	0	R6271	1-216-683-11	METAL CHIP	22K 0.5% 1/10W
R6149	1-216-025-91	RES-CHIP	100 5% 1/10W	R6278	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6154	1-216-049-91	RES-CHIP	1K 5% 1/10W	R6279	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6155	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R6280	1-212-849-00	FUSIBLE	4.7 5% 1/4W
R6160	1-216-295-91	SHORT	0	R6281	1-212-849-00	FUSIBLE	4.7 5% 1/4W
R6162	1-216-049-91	RES-CHIP	1K 5% 1/10W	R6282	1-215-886-11	METAL OXIDE	100 5% 2W
R6165	1-216-699-91	METAL CHIP	100K 0.5% 1/10W	R6283	1-216-393-00	METAL OXIDE	2.2 5% 3W
R6168	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R6285	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6169	1-216-699-91	METAL CHIP	100K 0.5% 1/10W	R6313	1-216-295-91	SHORT	0
R6170	1-216-037-00	RES-CHIP	330 5% 1/10W	R6322	1-216-049-91	RES-CHIP	1K 5% 1/10W
R6171	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R6323	1-216-049-91	RES-CHIP	1K 5% 1/10W
R6177	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R6324	1-216-025-91	RES-CHIP	100 5% 1/10W
R6180	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R6325	1-216-025-91	RES-CHIP	100 5% 1/10W
R6182	1-216-089-91	RES-CHIP	47K 5% 1/10W	R6350	1-216-089-91	RES-CHIP	47K 5% 1/10W
R6183	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R6351	1-218-762-11	METAL CHIP	270K 0.5% 1/10W
R6188	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R6353	1-216-671-11	METAL CHIP	6.8K 0.5% 1/10W
R6190	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R6355	1-218-774-11	METAL CHIP	820K 0.5% 1/10W
R6191	1-215-925-11	METAL OXIDE	22K 5% 3W	R6356	1-216-675-91	METAL CHIP	10K 0.5% 1/10W
R6192	1-216-683-11	METAL CHIP	22K 0.5% 1/10W	R6357	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6194	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R6358	1-216-047-91	RES-CHIP	820 5% 1/10W
R6195	1-216-683-11	METAL CHIP	22K 0.5% 1/10W	R6359	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6196	1-249-377-11	CARBON	0.47 5% 1/4W	R6360	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6198	1-216-081-00	RES-CHIP	22K 5% 1/10W	R6361	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6199	1-216-081-00	RES-CHIP	22K 5% 1/10W	R6362	1-216-687-11	METAL CHIP	33K 0.5% 1/10W
R6205	1-216-025-91	RES-CHIP	100 5% 1/10W	R6363	1-216-675-91	METAL CHIP	10K 0.5% 1/10W
R6208	1-216-089-91	RES-CHIP	47K 5% 1/10W	R6364	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6210	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R6365	1-216-033-00	RES-CHIP	220 5% 1/10W
R6211	1-216-073-00	RES-CHIP	10K 5% 1/10W	R6366	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6212	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R6367	1-216-679-11	METAL CHIP	15K 0.5% 1/10W
R6215	1-216-089-91	RES-CHIP	47K 5% 1/10W	R6368	1-218-760-11	METAL CHIP	220K 0.5% 1/10W
R6216	1-216-089-91	RES-CHIP	47K 5% 1/10W	R6369	1-218-762-11	METAL CHIP	270K 0.5% 1/10W
R6217	1-216-073-00	RES-CHIP	10K 5% 1/10W	R6371	1-216-474-11	METAL OXIDE	82 5% 3W
R6218	1-216-295-91	SHORT	0	R6372	1-216-033-00	RES-CHIP	220 5% 1/10W
R6254	1-216-049-91	RES-CHIP	1K 5% 1/10W	R6373	1-216-681-11	METAL CHIP	18K 0.5% 1/10W
R6255	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R6374	1-216-689-11	METAL CHIP	39K 0.5% 1/10W
R6256	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R6375	1-216-041-00	RES-CHIP	470 5% 1/10W
R6257	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R6377	1-216-689-11	METAL CHIP	39K 0.5% 1/10W
R6258	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R6378	1-216-675-91	METAL CHIP	10K 0.5% 1/10W
R6259	1-216-097-91	RES-CHIP	100K 5% 1/10W	R6379	1-216-295-91	SHORT	0
R6260	1-216-049-91	RES-CHIP	1K 5% 1/10W	R6380	1-218-754-11	METAL CHIP	120K 0.5% 1/10W
R6261	1-216-097-91	RES-CHIP	100K 5% 1/10W	R6381	1-216-045-00	RES-CHIP	680 5% 1/10W
R6262	1-260-321-71	CARBON	270 5% 1/2W	R6382	1-218-754-11	METAL CHIP	120K 0.5% 1/10W
R6263	1-216-025-91	RES-CHIP	100 5% 1/10W	R6383	1-216-687-11	METAL CHIP	33K 0.5% 1/10W
R6264	1-216-025-91	RES-CHIP	100 5% 1/10W	R6384	1-216-043-91	RES-CHIP	560 5% 1/10W
R6267	1-216-049-91	RES-CHIP	1K 5% 1/10W	R6385	1-216-295-91	SHORT	0
R6269	1-216-667-11	METAL CHIP	4.7K 0.5% 1/10W	R6386	1-216-699-91	METAL CHIP	100K 0.5% 1/10W

REF.NO.	PART.NO	DESCRIPTION	REMARK		
R6387	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R6391	1-249-417-11	CARBON	1K	5%	1/4W
R6394	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R6395	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6397	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R6398	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6399	1-218-756-11	METAL CHIP	150K	0.5%	1/10W
R6400	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R6401	1-216-295-91	SHORT	0		
R6402	1-216-295-91	SHORT	0		
R6403	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W
R6404	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R6405	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R6409	1-216-025-91	RES-CHIP	100	5%	1/10W
R6410	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6411	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6412	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6413	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R6414	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R6415	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R6416	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R6418	1-216-091-00	RES-CHIP	56K	5%	1/10W
R6419	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6420	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6421	1-216-637-11	METAL CHIP	270	0.5%	1/10W
R6422	1-216-639-11	METAL CHIP	330	0.5%	1/10W
R6423	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
R6426	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6427	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6429	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6430	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6432	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6433	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6437	1-249-422-11	CARBON	2.7K	5%	1/4W
R6438	1-249-421-11	CARBON	2.2K	5%	1/4W
R6439	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R6440	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R6441	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R6442	1-216-039-00	RES-CHIP	390	5%	1/10W
R6455	1-216-295-91	SHORT	0		
R6456	1-216-097-91	RES-CHIP	100K	5%	1/10W
R6457	1-216-075-00	RES-CHIP	12K	5%	1/10W
R6458	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6459	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6460	1-249-393-11	CARBON	10	5%	1/4W
R6461	1-249-411-11	CARBON	330	5%	1/4W
R6462	1-249-406-11	CARBON	120	5%	1/4W

REF.NO.	PART.NO	DESCRIPTION	REMARK		
R6463	1-216-095-00	RES-CHIP	82K	5%	1/10W
R6464	1-216-079-00	RES-CHIP	18K	5%	1/10W

D1 Board Variant Parts KV-28FQ75

< CAPACITOR >

C6130	1-163-259-91	CERAMIC CHIP	220PF	5.00%	16V
C6134	1-102-508-91	CERAMIC	10PF	0.50%	50V

< RESISTOR >

R6107	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
R6108	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
R6127	1-216-659-11	METAL CHIP	2.2K	5%	1/10W
R6130	1-218-768-11	METAL CHIP	470K	0.5%	1/10W
R6141	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R6142	1-216-670-11	METAL CHIP	6.2K	0.5%	1/10W
R6144	1-216-105-41	RES-CHIP	220K	5%	1/10W
R6145	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R6158	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R6159	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R6161	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R6174	1-216-075-00	RES-CHIP	12K	5%	1/10W
R6175	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6176	1-216-295-91	SHORT	0		
R6179	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6186	1-216-045-00	RES-CHIP	680	5%	1/10W
R6189	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R6193	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
R6200	1-216-695-11	METAL CHIP	68K	0.5%	1/10W
R6206	1-216-107-91	RES-CHIP	270K	5%	1/10W
R6207	1-216-113-00	RES-CHIP	470K	5%	1/10W
R6265	1-216-101-00	RES-CHIP	150K	5%	1/10W
R6268	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6276	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R6277	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R6284	1-216-113-00	RES-CHIP	470K	5%	1/10W
R6286	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6287	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6370	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R6428	1-216-103-00	RES-CHIP	180K	5%	1/10W
R6431	1-216-115-00	RES-CHIP	560K	5%	1/10W

D1 Board Variant Parts KV-32FQ75

< RESISTOR >

R6107	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R6108	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R6127	1-216-663-11	METAL CHIP	3.3K 5% 1/10W	C8155	1-107-682-11	CERAMIC CHIP 1UF	10.00% 16V
R6130	1-218-769-11	METAL CHIP	510K 0.5% 1/10W	C8156	1-164-505-11	CERAMIC CHIP 2.2UF	16V
R6141	1-216-679-11	METAL CHIP	15K 0.5% 1/10W	C8157	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R6142	1-216-667-11	METAL CHIP	4.7K 0.5% 1/10W	C8159	1-104-664-11	ELECT 47UF	20.00% 16V
R6144	1-216-099-00	RES-CHIP	120K 5% 1/10W	C8200	1-104-664-11	ELECT 47UF	20.00% 16V
R6145	1-216-055-00	RES-CHIP	1.8K 5% 1/10W	C8201	1-163-241-11	CERAMIC CHIP 39PF	5.00% 50V
R6158	1-216-667-11	METAL CHIP	4.7K 0.5% 1/10W	C8202	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
R6159	1-216-295-91	SHORT	0	C8203	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
R6161	1-216-673-11	METAL CHIP	8.2K 0.5% 1/10W	C8204	1-164-506-11	CERAMIC CHIP 4.7UF	16V
R6174	1-216-081-00	RES-CHIP	22K 5% 1/10W	C8205	1-165-319-11	CERAMIC CHIP 0.1UF	50V
R6175	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	C8208	1-164-506-11	CERAMIC CHIP 4.7UF	16V
R6176	1-216-071-00	RES-CHIP	8.2K 5% 1.10W	C8209	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
R6179	1-216-295-91	SHORT	0	C8210	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
R6186	1-216-063-91	RES-CHIP	3.9K 5% 1/10W	C8211	1-163-243-11	CERAMIC CHIP 47PF	5.00% 50V
R6189	1-216-295-91	SHORT	0	C8212	1-163-243-11	CERAMIC CHIP 47PF	5.00% 50V
R6206	1-216-105-91	RES-CHIP	220K 5% 1/10W	C8213	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
R6207	1-216-105-91	RES-CHIP	220K 5% 1/10W	C8214	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
R6265	1-216-105-91	RES-CHIP	220K 5% 1/10W	C8215	1-163-243-11	CERAMIC CHIP 47PF	5.00% 50V
R6266	1-216-113-00	RES-CHIP	470K 5% 1/10W	C8216	1-126-933-11	ELECT 100UF	20.00% 16V
R6268	1-216-093-91	RES-CHIP	68K 5% 1/10W	C8217	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
R6276	1-216-686-11	METAL CHIP	30K 0.5% 1/10W	C8218	1-126-964-11	ELECT 10UF	20.00% 50V
R6277	1-216-686-11	METAL CHIP	30K 0.5% 1/10W	C8219	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
R6284	1-216-109-00	RES-CHIP	330K 5% 1/10W	C8220	1-126-964-11	ELECT 10UF	20.00% 50V
R6286	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	C8221	1-104-664-11	ELECT 47UF	20.00% 16V
R6287	1-216-081-00	RES-CHIP	22K 5% 1/10W	C8222	1-104-664-11	ELECT 47UF	20.00% 16V
R6370	1-216-677-11	METAL CHIP	12K 0.5% 1/10W	C8223	1-104-664-11	ELECT 47UF	20.00% 16V
R6428	1-216-101-00	RES-CHIP	150K 5% 1/10W	C8224	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
R6431	1-216-113-00	RES-CHIP	470K 5% 1/10W	C8225	1-104-664-11	ELECT 47UF	20.00% 16V
*A-1651-133-A J Board, Complete				C8227	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
<CAPACITOR>				C8228	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8105	1-126-933-11	ELECT	100UF 20.00% 16V	C8229	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8106	1-126-933-11	ELECT	100UF 20.00% 16V	C8230	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8107	1-126-935-11	ELECT	470UF 20.00% 16V	C8231	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8108	1-126-933-11	ELECT	100UF 20.00% 16V	C8232	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8109	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	C8233	1-104-664-11	ELECT 47UF	20.00% 16V
C8110	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	C8234	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C8111	1-126-933-11	ELECT	100UF 20.00% 16V	C8235	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C8112	1-107-715-11	ELECT	22UF 20.00% 16V	C8236	1-126-933-11	ELECT 100UF	20.00% 16V
C8144	1-107-823-11	CERAMIC CHIP	0.47UF 10.00% 16V	C8237	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8145	1-107-823-11	CERAMIC CHIP	0.47UF 10.00% 16V	C8238	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C8150	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V	C8239	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C8151	1-163-017-00	CERAMIC CHIP	0.0047UF 10.00% 50V	C8240	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C8152	1-164-346-11	CERAMIC CHIP	1UF 16V	C8241	1-126-964-11	ELECT 10UF	20.00% 50V
C8153	1-107-682-11	CERAMIC CHIP	1UF 10.00% 16V	C8242	1-104-664-11	ELECT 47UF	20.00% 16V
C8154	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	C8243	1-110-501-11	CERAMIC CHIP 0.33UF	10.00% 16V
				C8301	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V
				C8302	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C8303	1-126-933-11	ELECT 100UF	20.00% 16V	C8417	1-164-346-11	CERAMIC CHIP 1UF	16V
C8304	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	C8418	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8305	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8419	1-126-964-11	ELECT 10UF	20.00% 50V
C8306	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	C8420	1-104-664-11	ELECT 47UF	20.00% 16V
C8307	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	C8421	1-126-933-11	ELECT 100UF	20.00% 16V
C8308	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	C8423	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8309	1-126-961-11	ELECT 2.2UF	20.00% 50V	C8424	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V
C8311	1-104-664-11	ELECT 47UF	20.00% 16V	C8427	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8313	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8437	1-126-963-11	ELECT 4.7UF	20.00% 50V
C8314	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8501	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8318	1-104-664-11	ELECT 47UF	20.00% 16V	C8503	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8321	1-104-664-11	ELECT 47UF	20.00% 16V	C8504	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8322	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V	C8505	1-126-933-11	ELECT 100UF	20.00% 16V
C8323	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8506	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V
C8324	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8507	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8325	1-126-964-11	ELECT 10UF	20.00% 50V	C8508	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8326	1-104-664-11	ELECT 47UF	20.00% 16V	C8509	1-126-933-11	ELECT 100UF	20.00% 16V
C8327	1-107-682-11	CERAMIC CHIP 1UF	10.00% 16V	C8510	1-104-664-11	ELECT 47UF	20.00% 16V
C8328	1-104-664-11	ELECT 47UF	20.00% 16V	C8511	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8329	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8512	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8331	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8513	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8332	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8514	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8333	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8515	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8334	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8516	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8335	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8517	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8336	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8518	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8337	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8519	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8338	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8520	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8345	1-164-346-11	CERAMIC CHIP 1UF	16V	C8521	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8346	1-126-963-11	ELECT 4.7UF	20.00% 50V	C8601	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V
C8349	1-163-113-00	CERAMIC CHIP 68PF	5.00% 50V	C8602	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V
C8401	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	C8605	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V
C8402	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V	C8606	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V
C8403	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8607	1-104-664-11	ELECT 47UF	20.00% 16V
C8404	1-126-961-11	ELECT 2.2UF	20.00% 50V	C8608	1-104-664-11	ELECT 47UF	20.00% 16V
C8405	1-104-664-11	ELECT 47UF	20.00% 16V	C8609	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V
C8406	1-104-664-11	ELECT 47UF	20.00% 16V	C8610	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V
C8407	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	C8611	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V
C8408	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8612	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V
C8409	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	C8613	1-104-664-11	ELECT 47UF	20.00% 16V
C8410	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8614	1-104-664-11	ELECT 47UF	20.00% 16V
C8411	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8700	1-126-964-11	ELECT 10UF	20.00% 50V
C8412	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	C8701	1-104-664-11	ELECT 47UF	20.00% 16V
C8413	1-104-664-11	ELECT 47UF	20.00% 16V	C8702	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V
C8414	1-104-664-11	ELECT 47UF	20.00% 16V	C8703	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8415	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V	C8704	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8416	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8705	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C8706	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V	C8862	1-164-346-11	CERAMIC CHIP 1UF	16V
C8707	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V	C8863	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8708	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8864	1-164-346-11	CERAMIC CHIP 1UF	16V
C8709	1-126-964-11	ELECT 10UF	20.00% 50V	C8865	1-104-664-11	ELECT 47UF	20.00% 16V
C8710	1-126-933-11	ELECT 100UF	20.00% 16V	C8866	1-164-346-11	CERAMIC CHIP 1UF	16V
C8804	1-126-933-11	ELECT 100UF	20.00% 16V	C8867	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8812	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8868	1-126-964-11	ELECT 10UF	20.00% 50V
C8814	1-104-664-11	ELECT 47UF	20.00% 25V	C8869	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8817	1-126-933-11	ELECT 100UF	20.00% 16V	C8896	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8822	1-126-933-11	ELECT 100UF	20.00% 16V	C8897	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8823	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8898	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V
C8824	1-104-664-11	ELECT 47UF	20.00% 25V	C8899	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V
C8825	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	C8900	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8826	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	C8901	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C8827	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8902	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C8828	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8903	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8829	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8904	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C8830	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8905	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8831	1-126-964-11	ELECT 10UF	20.00% 50V	C8906	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8832	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8907	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C8833	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8908	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8834	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8909	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C8835	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8910	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8836	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8911	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C8837	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8914	1-126-933-11	ELECT 100UF	20.00% 16V
C8838	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8977	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8839	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	C8978	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8840	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	<FILTER>			
C8841	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CF8150	1-760-106-11	FILTER, CERAMIC	
C8842	1-104-664-11	ELECT 47UF	20.00% 16V	CF8151	1-567-100-00	FILTER, CERAMIC	
C8843	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CF8152	1-760-450-21	FILTER, CERAMIC	
C8844	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	CF8200	1-409-327-00	TRAP, CERAMIC (6.5MHZ)	
C8846	1-126-933-11	ELECT 100UF	20.00% 16V	<CONNECTOR>			
C8847	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN8101	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
C8849	1-164-346-11	CERAMIC CHIP 1UF	16V	CN8900	1-561-534-41	SOCKET, PIN 21P	
C8850	1-164-346-11	CERAMIC CHIP 1UF	16V	CN8901	1-695-293-11	SOCKET 21P	
C8851	1-126-967-11	ELECT 47UF	20.00% 50V	CN8902	1-695-293-11	SOCKET 21P	
C8852	1-164-346-11	CERAMIC CHIP 1UF	16V	<DIODE>			
C8853	1-126-967-11	ELECT 47UF	20.00% 50V	D8150	8-719-421-57	DIODE MA73-TX	
C8854	1-164-346-11	CERAMIC CHIP 1UF	16V	D8151	8-719-421-57	DIODE MA73-TX	
C8855	1-164-346-11	CERAMIC CHIP 1UF	16V	D8152	8-719-421-57	DIODE MA73-TX	
C8856	1-164-346-11	CERAMIC CHIP 1UF	16V	D8153	8-719-056-83	DIODE UDZ-TE-17-6.8B	
C8857	1-164-346-11	CERAMIC CHIP 1UF	16V	D8200	8-719-158-49	DIODE UDZ-TE-17-12B	
C8858	1-164-346-11	CERAMIC CHIP 1UF	16V				
C8859	1-164-346-11	CERAMIC CHIP 1UF	16V	D8201	8-719-158-49	DIODE UDZ-TE-17-12B	
C8860	1-164-346-11	CERAMIC CHIP 1UF	16V				
C8861	1-164-346-11	CERAMIC CHIP 1UF	16V				

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
D8202	8-719-158-49	DIODE UDZ-TE-17-12B		FL8504	1-233-766-21	FILTER	
D8203	8-719-158-49	DIODE UDZ-TE-17-12B		FL8700	1-236-071-11	ENCAPSULATED COMPONENT	
D8801	8-719-158-49	DIODE UDZ-TE-17-12B		FL8701	1-236-071-11	ENCAPSULATED COMPONENT	
D8802	8-719-158-49	DIODE UDZ-TE-17-12B		FL8801	1-236-071-11	ENCAPSULATED COMPONENT	
D8803	8-719-158-49	DIODE UDZ-TE-17-12B		FL8802	1-236-071-11	ENCAPSULATED COMPONENT	
D8804	8-719-158-49	DIODE UDZ-TE-17-12B			<IC>		
D8805	8-719-158-49	DIODE UDZ-TE-17-12B		IC8101	8-759-576-76	IC TDA2822D013TR	
D8806	8-719-158-49	DIODE UDZ-TE-17-12B		IC8150	8-759-478-90	IC U2861B-MFP-G3	
D8807	8-719-158-49	DIODE UDZ-TE-17-12B		IC8151	8-752-072-94	IC CXA1875AM-T4	
D8808	8-719-158-49	DIODE UDZ-TE-17-12B		IC8200	8-759-654-42	IC MSP3410D-C5QA-B4	
D8809	8-719-158-49	DIODE UDZ-TE-17-12B		IC8201	8-759-701-36	IC MC3403NS-E20	
D8810	8-719-158-49	DIODE UDZ-TE-17-12B					
D8811	8-719-158-49	DIODE UDZ-TE-17-12B		IC8202	8-759-908-15	IC TL431CZ	
D8812	8-719-158-49	DIODE UDZ-TE-17-12B		IC8301	8-752-096-06	IC CXA2163Q-T6	
D8813	8-719-158-49	DIODE UDZ-TE-17-12B		IC8302	8-759-485-79	IC TC7SET08FU(TE85R)	
D8814	8-719-158-49	DIODE UDZ-TE-17-12B		IC8401	8-752-096-06	IC CXA2163Q-T6	
D8900	8-719-056-85	DIODE UDZ-TE-17-8.2B		IC8402	8-759-485-79	IC TC7SET08FU(TE85R)	
D8901	8-719-158-49	DIODE UDZ-TE-17-12B					
D8902	8-719-056-85	DIODE UDZ-TE-17-8.2B		IC8500	8-752-390-37	IC CXD2064Q-T6	
D8903	8-719-056-85	DIODE UDZ-TE-17-8.2B		IC8601	8-759-182-88	IC PQ09TZ5U	
D8904	8-719-056-85	DIODE UDZ-TE-17-8.2B		IC8602	8-759-576-72	IC LF50CDT-TR	
D8905	8-719-056-85	DIODE UDZ-TE-17-8.2B		IC8603	8-759-576-72	IC LF50CDT-TR	
D8906	8-719-056-85	DIODE UDZ-TE-17-8.2B		IC8604	8-759-576-72	IC LF50CDT-TR	
D8907	8-719-158-49	DIODE UDZ-TE-17-12B					
D8908	8-719-056-85	DIODE UDZ-TE-17-8.2B		IC8700	8-752-390-35	IC CXD2057M-T6	
D8909	8-719-056-85	DIODE UDZ-TE-17-8.2B		IC8801	8-752-096-83	IC CXA2149AQ-TL	
D8910	8-719-056-85	DIODE UDZ-TE-17-8.2B			<JACK>		
D8911	8-719-056-85	DIODE UDZ-TE-17-8.2B		J8901	1-774-747-11	JACK BLOCK, PIN	
D8912	8-719-158-49	DIODE UDZ-TE-17-12B			<CHIP CONDUCTOR>		
D8913	8-719-158-49	DIODE UDZ-TE-17-12B					
D8914	8-719-158-49	DIODE UDZ-TE-17-12B		JR8101	1-216-295-91	SHORT	0
D8915	8-719-158-49	DIODE UDZ-TE-17-12B		JR8402	1-216-295-91	SHORT	0
		<FILTER>			<COIL>		
FL8200	1-236-071-11	ENCAPSULATED COMPONENT		L8150	1-414-757-11	INDUCTOR	100UH
FL8201	1-233-764-21	FILTER		L8200	1-412-006-31	INDUCTOR CHIP	10UH
FL8203	1-236-071-11	ENCAPSULATED COMPONENT		L8201	1-412-064-11	INDUCTOR CHIP	100UH
FL8302	1-236-071-11	ENCAPSULATED COMPONENT		L8301	1-412-006-31	INDUCTOR CHIP	10UH
FL8304	1-236-071-11	ENCAPSULATED COMPONENT			<TRANSISTOR>		
FL8308	1-236-071-11	ENCAPSULATED COMPONENT		Q8100	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
FL8401	1-236-071-11	ENCAPSULATED COMPONENT		Q8101	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
FL8402	1-236-071-11	ENCAPSULATED COMPONENT		Q8150	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
FL8403	1-236-071-11	ENCAPSULATED COMPONENT		Q8151	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FL8500	1-236-071-11	ENCAPSULATED COMPONENT		Q8152	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FL8501	1-236-071-11	ENCAPSULATED COMPONENT					
FL8502	1-233-765-21	FILTER		Q8153	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FL8503	1-233-768-21	FILTER		Q8154	1-801-806-11	TRANSISTOR DTC144EKA-T146	
				Q8156	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
Q8157	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8150	1-216-057-00	RES-CHIP 2.2K 5%	1/10W
Q8200	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8151	1-216-069-00	RES-CHIP 6.8K 5%	1/10W
Q8201	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8152	1-216-035-00	RES-CHIP 270 5%	1/10W
Q8202	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8153	1-216-081-00	RES-CHIP 22K 5%	1/10W
Q8300	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R8154	1-216-067-00	RES-CHIP 5.6K 5%	1/10W
Q8302	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8155	1-216-043-91	RES-CHIP 560 5%	1/10W
Q8303	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8156	1-216-081-00	RES-CHIP 22K 5%	1/10W
Q8305	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8157	1-216-067-00	RES-CHIP 5.6K 5%	1/10W
Q8306	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8158	1-216-043-91	RES-CHIP 560 5%	1/10W
Q8308	8-729-038-96	TRANSISTOR 1M21A-T109		R8159	1-216-081-00	RES-CHIP 22K 5%	1/10W
Q8309	8-729-038-96	TRANSISTOR 1M21A-T109		R8160	1-216-067-00	RES-CHIP 5.6K 5%	1/10W
Q8310	8-729-038-96	TRANSISTOR 1M21A-T109		R8161	1-216-043-91	RES-CHIP 560 5%	1/10W
Q8401	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8162	1-216-049-91	RES-CHIP 1K 5%	1/10W
Q8402	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8163	1-216-295-91	SHORT 0	
Q8403	8-729-038-96	TRANSISTOR 1M21A-T109		R8164	1-216-295-91	SHORT 0	
Q8404	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8165	1-216-295-91	SHORT 0	
Q8405	8-729-038-96	TRANSISTOR 1M21A-T109		R8167	1-216-025-91	RES-CHIP 100 5%	1/10W
Q8406	8-729-038-96	TRANSISTOR 1M21A-T109		R8168	1-216-025-91	RES-CHIP 100 5%	1/10W
Q8501	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R8174	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
Q8503	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R8175	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
Q8504	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R8176	1-216-295-91	SHORT 0	
Q8700	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8178	1-216-073-00	RES-CHIP 10K 5%	1/10W
Q8809	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R8200	1-216-049-91	RES-CHIP 1K 5%	1/10W
Q8814	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8201	1-216-295-91	SHORT 0	
Q8816	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R8202	1-216-021-00	RES-CHIP 68 5%	1/10W
Q8817	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8203	1-216-069-00	RES-CHIP 6.8K 5%	1/10W
Q8818	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8204	1-216-049-91	RES-CHIP 1K 5%	1/10W
Q8819	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8205	1-216-069-00	RES-CHIP 6.8K 5%	1/10W
Q8820	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8206	1-216-049-91	RES-CHIP 1K 5%	1/10W
Q8901	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R8208	1-216-037-00	RES-CHIP 330 5%	1/10W
Q8902	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R8209	1-216-659-11	METAL CHIP 2.2K 0.5%	1/10W
<RESISTOR>				R8210	1-216-025-91	RES-CHIP 100 5%	1/10W
R8103	1-216-075-00	RES-CHIP 12K 5%	1/10W	R8211	1-216-295-91	SHORT 0	
R8104	1-216-075-00	RES-CHIP 12K 5%	1/10W	R8212	1-216-295-91	SHORT 0	
R8105	1-216-057-00	RES-CHIP 2.2K 5%	1/10W	R8213	1-216-295-91	SHORT 0	
R8106	1-216-081-00	RES-CHIP 22K 5%	1/10W	R8216	1-216-025-91	RES-CHIP 100 5%	1/10W
R8107	1-216-081-00	RES-CHIP 22K 5%	1/10W	R8217	1-216-025-91	RES-CHIP 100 5%	1/10W
R8108	1-216-057-00	RES-CHIP 2.2K 5%	1/10W	R8218	1-216-049-91	RES-CHIP 1K 5%	1/10W
R8109	1-249-389-11	CARBON 4.7 5%	1/4W	R8219	1-216-025-91	RES-CHIP 100 5%	1/10W
R8110	1-249-389-11	CARBON 4.7 5%	1/4W	R8220	1-216-025-91	RES-CHIP 100 5%	1/10W
R8111	1-216-033-00	RES-CHIP 220 5%	1/10W	R8221	1-216-025-91	RES-CHIP 100 5%	1/10W
R8112	1-216-033-00	RES-CHIP 220 5%	1/10W	R8222	1-216-295-91	SHORT 0	
R8115	1-216-029-00	RES-CHIP 150 5%	1/10W	R8223	1-216-089-91	RES-CHIP 47K 5%	1/10W
R8116	1-216-029-00	RES-CHIP 150 5%	1/10W	R8224	1-216-089-91	RES-CHIP 47K 5%	1/10W
R8117	1-216-029-00	RES-CHIP 150 5%	1/10W	R8225	1-216-089-91	RES-CHIP 47K 5%	1/10W
R8118	1-216-029-00	RES-CHIP 150 5%	1/10W	R8226	1-216-089-91	RES-CHIP 47K 5%	1/10W
				R8227	1-216-089-91	RES-CHIP 47K 5%	1/10W

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R8228	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8344	1-216-091-00	RES-CHIP	56K 5% 1/10W
R8229	1-216-295-91	SHORT	0	R8345	1-216-079-00	RES-CHIP	18K 5% 1/10W
R8230	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8346	1-216-091-00	RES-CHIP	56K 5% 1/10W
R8231	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8347	1-216-079-00	RES-CHIP	18K 5% 1/10W
R8232	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8350	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8233	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8401	1-216-295-91	SHORT	0
R8234	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8402	1-216-295-91	SHORT	0
R8235	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8403	1-216-083-00	RES-CHIP	27K 5% 1/10W
R8236	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8405	1-216-063-91	RES-CHIP	3.9K 5% 1/10W
R8237	1-216-043-91	RES-CHIP	560 5% 1/10W	R8406	1-216-017-91	RES-CHIP	47 5% 1/10W
R8238	1-216-063-91	RES-CHIP	3.9K 5% 1/10W	R8407	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8239	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	R8408	1-216-039-00	RES-CHIP	390 5% 1/10W
R8240	1-216-651-11	METAL CHIP	1K 0.5% 1/10W	R8409	1-216-017-91	RES-CHIP	47 5% 1/10W
R8243	1-216-021-00	RES-CHIP	68 5% 1/10W	R8412	1-216-025-91	RES-CHIP	100 5% 1/10W
R8300	1-216-295-91	SHORT	0	R8413	1-216-025-91	RES-CHIP	100 5% 1/10W
R8302	1-216-017-91	RES-CHIP	47 5% 1/10W	R8416	1-216-091-00	RES-CHIP	56K 5% 1/10W
R8306	1-216-083-00	RES-CHIP	27K 5% 1/10W	R8417	1-216-081-00	RES-CHIP	22K 5% 1/10W
R8307	1-216-049-91	RES-CHIP	1K 5% 1/10W	R8418	1-216-295-91	SHORT	0
R8308	1-216-039-00	RES-CHIP	390 5% 1/10W	R8419	1-216-041-00	RES-CHIP	470 5% 1/10W
R8309	1-216-049-91	RES-CHIP	1K 5% 1/10W	R8420	1-216-041-00	RES-CHIP	470 5% 1/10W
R8310	1-216-037-00	RES-CHIP	330 5% 1/10W	R8421	1-216-041-00	RES-CHIP	470 5% 1/10W
R8312	1-216-091-00	RES-CHIP	56K 5% 1/10W	R8422	1-216-037-00	RES-CHIP	330 5% 1/10W
R8313	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8423	1-216-041-00	RES-CHIP	470 5% 1/10W
R8314	1-216-295-91	SHORT	0	R8424	1-216-041-00	RES-CHIP	470 5% 1/10W
R8315	1-216-121-91	RES-CHIP	1M 5% 1/10W	R8425	1-216-041-00	RES-CHIP	470 5% 1/10W
R8316	1-216-037-00	RES-CHIP	330 5% 1/10W	R8426	1-216-017-91	RES-CHIP	47 5% 1/10W
R8317	1-216-295-91	SHORT	0	R8427	1-216-017-91	RES-CHIP	47 5% 1/10W
R8318	1-216-295-91	SHORT	0	R8428	1-216-017-91	RES-CHIP	47 5% 1/10W
R8319	1-216-295-91	SHORT	0	R8429	1-216-041-00	RES-CHIP	470 5% 1/10W
R8320	1-216-041-00	RES-CHIP	470 5% 1/10W	R8430	1-216-037-00	RES-CHIP	330 5% 1/10W
R8322	1-216-049-91	RES-CHIP	1K 5% 1/10W	R8431	1-216-041-00	RES-CHIP	470 5% 1/10W
R8323	1-216-017-91	RES-CHIP	47 5% 1/10W	R8432	1-216-041-00	RES-CHIP	470 5% 1/10W
R8324	1-216-041-00	RES-CHIP	470 5% 1/10W	R8433	1-216-041-00	RES-CHIP	470 5% 1/10W
R8326	1-216-017-91	RES-CHIP	47 5% 1/10W	R8435	1-216-091-00	RES-CHIP	56K 5% 1/10W
R8328	1-216-025-91	RES-CHIP	100 5% 1/10W	R8436	1-216-079-00	RES-CHIP	18K 5% 1/10W
R8329	1-216-025-91	RES-CHIP	100 5% 1/10W	R8437	1-216-091-00	RES-CHIP	56K 5% 1/10W
R8330	1-216-041-00	RES-CHIP	470 5% 1/10W	R8438	1-216-079-00	RES-CHIP	18K 5% 1/10W
R8331	1-216-041-00	RES-CHIP	470 5% 1/10W	R8439	1-216-295-91	SHORT	0
R8332	1-216-041-00	RES-CHIP	470 5% 1/10W	R8506	1-216-091-00	RES-CHIP	56K 5% 1/10W
R8333	1-216-041-00	RES-CHIP	470 5% 1/10W	R8507	1-216-295-91	SHORT	0
R8334	1-216-041-00	RES-CHIP	470 5% 1/10W	R8508	1-216-043-91	RES-CHIP	560 5% 1/10W
R8336	1-216-041-00	RES-CHIP	470 5% 1/10W	R8509	1-216-031-00	RES-CHIP	180 5% 1/10W
R8337	1-216-041-00	RES-CHIP	470 5% 1/10W	R8510	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R8338	1-216-017-91	RES-CHIP	47 5% 1/10W	R8511	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8339	1-216-017-91	RES-CHIP	47 5% 1/10W	R8512	1-216-295-91	SHORT	0
R8340	1-216-063-91	RES-CHIP	3.9K 5% 1/10W	R8514	1-216-017-91	RES-CHIP	47 5% 1/10W
R8341	1-216-041-00	RES-CHIP	470 5% 1/10W	R8517	1-216-295-91	SHORT	0

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R8519	1-216-037-00	RES-CHIP	330 5% 1/10W	R8868	1-216-017-91	RES-CHIP	47 5% 1/10W
R8520	1-216-041-00	RES-CHIP	470 5% 1/10W	R8869	1-216-017-91	RES-CHIP	47 5% 1/10W
R8521	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R8871	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8522	1-216-041-00	RES-CHIP	470 5% 1/10W	R8872	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8523	1-216-033-00	RES-CHIP	220 5% 1/10W	R8873	1-216-113-00	RES-CHIP	470K 5% 1/10W
R8525	1-216-295-91	SHORT	0	R8874	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8526	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R8875	1-216-113-00	RES-CHIP	470K 5% 1/10W
R8527	1-216-047-91	RES-CHIP	820 5% 1/10W	R8876	1-216-093-91	RES-CHIP	68K 5% 1/10W
R8528	1-216-047-91	RES-CHIP	820 5% 1/10W	R8877	1-216-093-91	RES-CHIP	68K 5% 1/10W
R8529	1-216-055-00	RES-CHIP	1.8K 5% 1/10W	R8878	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8530	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R8879	1-216-689-11	METAL CHIP	39K 0.5% 1/10W
R8531	1-216-053-00	RES-CHIP	1.5K 5% 1/10W	R8880	1-216-295-91	SHORT	0
R8532	1-216-049-91	RES-CHIP	1K 5% 1/10W	R8881	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8700	1-216-049-91	RES-CHIP	1K 5% 1/10W	R8882	1-216-079-00	RES-CHIP	18K 5% 1/10W
R8701	1-216-073-00	RES-CHIP	10K 5% 1/10W	R8883	1-216-645-11	METAL CHIP	560 0.5% 1/10W
R8702	1-216-025-91	RES-CHIP	100 5% 1/10W	R8885	1-216-645-11	METAL CHIP	560 0.5% 1/10W
R8703	1-216-025-91	RES-CHIP	100 5% 1/10W	R8886	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8704	1-216-025-91	RES-CHIP	100 5% 1/10W	R8888	1-216-033-00	RES-CHIP	220 5% 1/10W
R8705	1-216-295-91	SHORT	0	R8889	1-216-033-00	RES-CHIP	220 5% 1/10W
R8706	1-216-049-91	RES-CHIP	1K 5% 1/10W	R8890	1-216-295-91	SHORT	0
R8707	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8892	1-216-295-91	SHORT	0
R8708	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8893	1-216-295-91	SHORT	0
R8709	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	R8900	1-216-039-00	RES-CHIP	390 5% 1/10W
R8806	1-216-085-00	RES-CHIP	33K 5% 1/10W	R8901	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8807	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8902	1-216-039-00	RES-CHIP	390 5% 1/10W
R8820	1-216-295-91	SHORT	0	R8903	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8826	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R8904	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8838	1-216-025-91	RES-CHIP	100 5% 1/10W	R8905	1-216-113-00	RES-CHIP	470K 5% 1/10W
R8839	1-216-085-00	RES-CHIP	33K 5% 1/10W	R8906	1-216-035-00	RES-CHIP	270 5% 1/10W
R8840	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8907	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8841	1-216-025-91	RES-CHIP	100 5% 1/10W	R8908	1-216-035-00	RES-CHIP	270 5% 1/10W
R8846	1-216-295-91	SHORT	0	R8909	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8848	1-216-035-00	RES-CHIP	270 5% 1/10W	R8911	1-216-025-91	RES-CHIP	100 5% 1/10W
R8850	1-216-033-00	RES-CHIP	220 5% 1/10W	R8913	1-216-022-00	RES-CHIP	75 5% 1/10W
R8851	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	R8914	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
R8853	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R8915	1-216-022-00	RES-CHIP	75 5% 1/10W
R8854	1-216-029-00	RES-CHIP	150 5% 1/10W	R8916	1-216-017-91	RES-CHIP	47 5% 1/10W
R8855	1-216-031-00	RES-CHIP	180 5% 1/10W	R8917	1-216-017-91	RES-CHIP	47 5% 1/10W
R8856	1-216-055-00	RES-CHIP	1.8K 5% 1/10W	R8918	1-216-113-00	RES-CHIP	470K 5% 1/10W
R8857	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8919	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8858	1-216-079-00	RES-CHIP	18K 5% 1/10W	R8922	1-216-022-00	RES-CHIP	75 5% 1/10W
R8859	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R8923	1-216-022-00	RES-CHIP	75 5% 1/10W
R8861	1-216-295-91	SHORT	0	R8924	1-216-022-00	RES-CHIP	75 5% 1/10W
R8863	1-216-295-91	SHORT	0	R8925	1-216-022-00	RES-CHIP	75 5% 1/10W
R8865	1-216-022-00	RES-CHIP	75 5% 1/10W	R8926	1-216-017-91	RES-CHIP	47 5% 1/10W
R8866	1-216-022-00	RES-CHIP	75 5% 1/10W	R8927	1-216-017-91	RES-CHIP	47 5% 1/10W
R8867	1-216-049-91	RES-CHIP	1K 5% 1/10W	R8928	1-216-017-91	RES-CHIP	47 5% 1/10W

REF.NO.	PART.NO	DESCRIPTION	REMARK
R8929	1-216-039-00	RES-CHIP	390 5% 1/10W
R8930	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8931	1-216-039-00	RES-CHIP	390 5% 1/10W
R8932	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8933	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8934	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8935	1-216-113-00	RES-CHIP	470K 5% 1/10W
R8936	1-216-113-00	RES-CHIP	470K 5% 1/10W
R8937	1-216-035-00	RES-CHIP	270 5% 1/10W
R8938	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8939	1-216-035-00	RES-CHIP	270 5% 1/10W
R8940	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8941	1-216-025-91	RES-CHIP	100 5% 1/10W
R8942	1-216-009-91	RES-CHIP	22 5% 1/10W
R8943	1-216-022-00	RES-CHIP	75 5% 1/10W
R8944	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
R8945	1-216-022-00	RES-CHIP	75 5% 1/10W
R8946	1-216-017-91	RES-CHIP	47 5% 1/10W
R8947	1-216-039-00	RES-CHIP	390 5% 1/10W
R8948	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8949	1-216-022-00	RES-CHIP	75 5% 1/10W
R8950	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8951	1-216-017-91	RES-CHIP	47 5% 1/10W
R8952	1-216-113-00	RES-CHIP	470K 5% 1/10W
R8953	1-216-035-00	RES-CHIP	270 5% 1/10W
R8954	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8955	1-216-039-00	RES-CHIP	390 5% 1/10W
R8956	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8957	1-216-025-91	RES-CHIP	100 5% 1/10W
R8958	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8959	1-216-022-00	RES-CHIP	75 5% 1/10W
R8960	1-216-017-91	RES-CHIP	47 5% 1/10W
R8961	1-216-022-00	RES-CHIP	75 5% 1/10W
R8962	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
R8963	1-216-113-00	RES-CHIP	470K 5% 1/10W
R8964	1-216-035-00	RES-CHIP	270 5% 1/10W
R8965	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8968	1-216-022-00	RES-CHIP	75 5% 1/10W
R8969	1-216-017-91	RES-CHIP	47 5% 1/10W
R8974	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8977	1-216-037-00	RES-CHIP	330 5% 1/10W
R8978	1-216-037-00	RES-CHIP	330 5% 1/10W
R8979	1-216-045-00	RES-CHIP	680 5% 1/10W
R8980	1-216-045-00	RES-CHIP	680 5% 1/10W
R8981	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8982	1-216-079-00	RES-CHIP	18K 5% 1/10W
R8994	1-216-073-00	RES-CHIP	10K 5% 1/10W

REF.NO.	PART.NO	DESCRIPTION	REMARK
R8995	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8996	1-216-059-00	RES-CHIP	2.7K 5% 1/10W
R8997	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
R8998	1-216-041-00	RES-CHIP	470 5% 1/10W

<CRYSTAL>

X8200	1-781-148-21	VIBRATOR, CRYSTAL
X8301	1-781-612-11	VIBRATOR, CRYSTAL
X8401	1-781-612-11	VIBRATOR, CRYSTAL
X8700	1-767-342-21	VIBRATOR, CRYSTAL

*A-1644-108-A VM Board, Complete

4-382-854-11 SCREW (M3X10), P, SW (+)

< CAPACITOR >

C5400	1-107-883-11	ELECT	330UF	20.00% 16V
C5401	1-126-935-11	ELECT	470UF	20.00% 16V
C5402	1-137-150-11	MYLAR	0.01UF	5.00% 50V
C5403	1-126-935-11	ELECT	470UF	20.00% 6.3V
C5405	1-126-933-11	ELECT	100UF	20.00% 16V
C5406	1-126-935-11	ELECT	470UF	20.00% 6.3V
C5407	1-107-364-11	MYLAR	0.01UF	10.00% 200V
C5408	1-107-364-11	MYLAR	0.01UF	10.00% 200V
C5409	1-107-649-11	ELECT	2.2UF	20.00% 250V
C5410	1-130-471-00	MYLAR	0.001UF	5.00% 50V
C5411	1-130-471-00	MYLAR	0.001UF	5.00% 50V
C5412	1-126-935-11	ELECT	470UF	20.00% 16V
C5413	1-126-935-11	ELECT	470UF	20.00% 16V
C5414	1-107-652-11	ELECT	10UF	20.00% 250V
C5415	1-107-363-91	MYLAR	0.0068UF	10.00% 200V
C5417	1-102-959-91	CERAMIC	22PF	5.00% 50V
C5418	1-102-947-00	CERAMIC	10PF	0.50PF 50V

< CONNECTOR >

CN5402	*1-568-878-51	PIN, CONNECTOR 3P
CN5444	*1-770-723-11	CONNECTOR, BOARD TO BOARD 8P
CN5602	*1-568-881-51	PIN, CONNECTOR 6P

< DIODE >

D5400	8-719-991-33	DIODE 1SS133T-77
D5401	8-719-510-02	DIODE D1NS4-TR
D5402	1-535-303-00	LEAD, JUMPER (5.0MM)
D5403	8-719-991-33	DIODE 1SS133T-77
D5404	8-719-991-33	DIODE 1SS133T-77
D5405	8-719-924-11	DIODE MTZJ-T-77-22
D5406	8-719-924-11	DIODE MTZJ-T-77-22

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
< FERRITE BEAD >				R5428	1-249-413-11	CARBON 470 5%	1/4W
FB5400	1-535-303-00	LEAD, JUMPER (5.0MM)		R5429	1-249-413-11	CARBON 470 5%	1/4W
FB5401	1-535-303-00	LEAD, JUMPER (5.0MM)		R5430	1-249-417-11	CARBON 1K 5%	1/4W
< COIL >				R5432	1-249-415-11	CARBON 680 5%	1/4W
L5400	1-410-784-41	INDUCTOR 0.18UH		R5433	1-249-400-11	CARBON 39 5%	1/4W
L5401	1-408-602-31	INDUCTOR 8.2UH		R5434	1-249-395-11	CARBON 15 5%	1/4W
< TRANSISTOR >							
Q5400	8-729-119-78	TRANSISTOR 2SC1740S-RT					
Q5401	8-729-119-78	TRANSISTOR 2SC1740S-RT					
Q5402	8-729-119-78	TRANSISTOR 2SC1740S-RT					
Q5403	8-729-119-78	TRANSISTOR 2SC1740S-RT					
Q5404	8-729-026-39	TRANSISTOR 2SA933AS-RT					
Q5405	8-729-026-39	TRANSISTOR 2SA933AS-RT					
Q5406	8-729-045-05	TRANSISTOR 2SA2005					
Q5407	8-729-045-04	TRANSISTOR 2SC5511					
Q5408	8-729-026-39	TRANSISTOR 2SA933AS-RT					
Q5409	8-729-119-78	TRANSISTOR 2SC1740S-RT					
< RESISTOR >							
R5401	1-247-843-11	CARBON 3.3K 5%	1/4W				
R5402	1-249-413-11	CARBON 470 5%	1/4W				
R5403	1-249-393-11	CARBON 10 5%	1/4W				
R5404	1-249-420-11	CARBON 1.8K 5%	1/4W				
R5405	1-249-425-11	CARBON 4.7K 5%	1/4W				
R5406	1-249-425-11	CARBON 4.7K 5%	1/4W				
R5407	1-249-399-11	CARBON 33 5%	1/4W				
R5408	1-247-807-31	CARBON 100 5%	1/4W				
R5409	1-247-815-91	CARBON 220 5%	1/4W				
R5410	1-249-401-11	CARBON 47 5%	1/4W				
R5411	1-249-401-11	CARBON 47 5%	1/4W				
R5412	1-249-429-11	CARBON 10K 5%	1/4W				
R5413	1-249-414-11	CARBON 560 5%	1/4W				
R5414	1-249-432-11	CARBON 18K 5%	1/4W				
R5415	1-247-739-11	CARBON 100 5%	1/2W				
R5416	1-249-389-11	CARBON 4.7 5%	1/4W				
R5417	1-249-432-11	CARBON 18K 5%	1/4W				
R5418	1-249-414-11	CARBON 560 5%	1/4W				
R5419	1-249-421-11	CARBON 2.2K 5%	1/4W				
R5420	1-249-421-11	CARBON 2.2K 5%	1/4W				
R5421	1-249-387-11	CARBON 3.3 5%	1/4W				
R5422	1-249-405-11	CARBON 100 5%	1/4W				
R5423	1-215-915-11	METAL OXIDE 470 5%	3W				
R5425	1-535-303-00	LEAD, JUMPER (5.0MM)					
R5427	1-249-401-11	CARBON 47 5%	1/4W				

The components identified by shading and marked **△** are critical for safety
Replace only with the part number specified.

REF. NO.	PART.NO	DESCRIPTION	REMARK
MISCELLANEOUS			
△	1-416-466-11	COIL DEMAGNETIC (KV-28FQ75)	
△	1-416-769-11	COIL DEMAGNETIC (KV-32FQ75)	
	1-452-032-00	MAGNET, DISK; 10MM	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
△	1-453-340-11	TRANSFORMER ASSY, FLYBACK (NX-4522//U214)	
	1-542-436-11	SPEAKER (24x4.2CM)	
	1-529-417-11	SPEAKER (8CM)	
	1-419-363-11	COIL, NA ROTATION	
△	1-571-433-31	SWITCH, PUSH (AC POWER)	
△	1-792-389-11	CORD, POWER (WITH CONNECTOR) (KV-28FQ75A/28FQ75B/28FQ75D/28FQ75E KV-32FQ75A/32FQ75B/32FQ75D/32FQ75E)	
△	1-792-592-11	CORD, POWER (WITH PLUG) (KV-28FQ75U/32FQ75U)	
△	8-453-011-11	NECK ASSY, (NA-299-M)	
	1-693-338-21	MAIN TUNER/VIF (KV-28FQ75A/28FQ75D/28FQ75E KV-32FQ75A/32FQ75D/32FQ75E)	
	1-693-340-21	MAIN TUNER/VIF (KV-28FQ75B/32FQ75B)	
	1-693-339-21	MAIN TUNER/VIF (KV-28FQ75U/32FQ75U)	
	1-693-338-21	SUB TUNER/VIF (KV-28FQ75A/28FQ75D/28FQ75E KV-32FQ75A/32FQ75D/32FQ75E)	
	1-693-340-21	SUB TUNER/VIF (KV-28FQ75B/32FQ75B)	
	1-693-339-21	SUB TUNER/VIF (KV-28FQ75U/32FQ75U)	
△	8-737-786-05	PICTURE TUBE (W66LLX060X) (KV-28FQ75)	
△	8-735-054-05	PICTURE TUBE (W76LLX060X) (KV-32FQ75)	
△	1-451-481-11	DEFLECTION YOKE (Y28RVC2) (KV-28FQ75)	
△	1-451-480-11	DEFLECTION YOKE (Y32RVC2) (KV-32FQ75)	
△	1-251-807-22	CAP ASSY, HIGH VOLTAGE	
	1-542-437-11	TWEETER (2CM)	
	1-790-082-11	CABLE, RF	
	*A-1620-128-A	BL BOARD, COMPLETE	

ACCESSORIES AND PACKAGING MATERIALS			
	4-205-571-41	MANUAL, INSTRUCTION (KV-28FQ75A/32FQ75A) (ITALIAN)	
	4-205-563-51	MANUAL, INSTRUCTION (KV-28FQ75B/32FQ75B) (GERMAN/FRENCH/ENGLISH/ITALIAN/DUTCH)	
	4-205-563-11	MANUAL, INSTRUCTION (KV-28FQ75D/32FQ75D) (GERMAN/GREEK)	
	4-205-563-71	MANUAL, INSTRUCTION (KV-28FQ75E/32FQ75E) (DANISH/SPANISH/FINNISH/NORWEGIAN/PORTUGUESE/ SWEDISH)	
	4-205-563-61	MANUAL, INSTRUCTION (KV-28FQ75U/32FQ75U) (ENGLISH)	
	*4-379-957-01	BAG, PROTECTION (KV-28FQ75)	
	*4-029-168-01	BAG, PROTECTION (KV-32FQ75)	
	*4-205-229-01	INDIVIDUAL CARTON (KV-28FQ75)	

REF. NO.	PART.NO	DESCRIPTION	REMARK
	*4-205-228-01	INDIVIDUAL CARTON (KV-32FQ75)	
	*4-205-235-01	CUSHION (UPPER) (ASSY) (KV-28FQ75)	
	*4-205-227-01	CUSHION (UPPER) (ASSY) (KV-32FQ75)	
	*4-205-234-01	CUSHION (LOWER) (ASSY) (KV-28FQ75)	
	*4-205-226-01	CUSHION (LOWER) (ASSY) (KV-32FQ75)	
REMOTE COMMANDER			
	1-418-572-21	REMOTE COMMANDER (RM-893)	

TRACE

A new TV Repair Assistance Tool that combines ease of use and powerful PC software tools to allow you to save valuable time during many TV repairs.



The TRACE interface connects to the PC's serial port. It provides connection to the TV's I²C bus and can be provided with an InfraRed transmitter (optional).

The interface is powered by a standard 9 V PP3 battery for portable use, and can also be powered by an external 9V/25mA DC power supply.

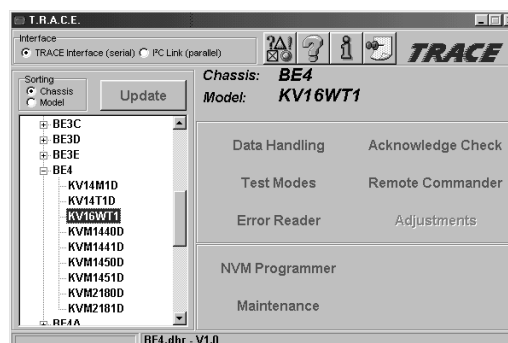
The TRACE software that is supplied with the interface allows you to:

- Read, restore and compare NVM contents via the I²C bus
- Acknowledge check of all I²C devices in the TV set
- Read Error Codes (emulation of the Error Reader tool)

With the optional IR Add-on kit, the following features can be added:

- Remote Commander emulation
- User programmable Functional Check through Infrared
- Fast and documented Test Mode setting of all Sony TV chassis

Additional features such as Adjustments and Troubleshooting are available in chassis-dependent software modules. Please contact your local Sony Service organisation for the latest information.



Note: For workshops already using the existing I²C Link parallel port interface (9-948-320-30), this software can be used as well, replacing the TV Data Handling software (9-948-340-50), but Error Reader and IR functions can only be accessed with the TRACE interface.

Partnumbers: TRACE Starter Kit (TRACE interface + software): 9-948-320-70
 TRACE Software (for users of the I²C Link interface): 9-948-340-80
 TRACE IR Add-on (IR interface + Remote Commander software): 9-948-320-80

PC requirements: IBM-compatible PC with operating system Windows95, Windows98, or WindowsNT*.

* WindowsNT only supported with TRACE interface

Sony Corporation
Sony UK
Service Promotions Dept.

9-974-991-01

English
 00EP7170-1
 Printed in U.K.
 © 2000.5